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CURRENT INDUSTRIAL REPORTS

Electric Lamps

U.S. Department of Commerce
BUREAU OF THE CENSUS

ORIGINAL

SUMMARY FOR 1984

MQ36B(84)-5
Issued June 1985

SUMMARY OF FINDINGS

In 1984, production of electric lamps totaled 3,821 million units, an increase of 2 percent over the 1983 total of 3,762 million units. Shipments of electric lamps in 1984 amounted to

3,723 million, valued at \$2,662 million, representing an increase of 3 percent in the number and an increase of 17 percent in the value shipped relative to the previous year. A description of the survey methodology and related information appears on page 17.

Table 1. PRODUCTION, SHIPMENTS, AND STOCKS OF ELECTRIC LAMPS (SEASONALLY ADJUSTED): 1980 TO 1984

(Production, quantity, and stocks in thousands of lamps; value in thousands of dollars)

Quarter and year	Production ¹	Product shipments ¹		Stocks, end of quarter ¹
		Quantity	Value	
1984				
Fourth quarter.....	933,620	862,943	669,630	1,069,010
Third quarter.....	948,730	895,127	663,747	933,399
Second quarter.....	969,693	956,010	651,511	887,460
First quarter.....	969,461	1,039,437	676,307	889,040
1983				
Fourth quarter.....	959,904	878,243	583,158	937,993
Third quarter.....	971,353	855,851	571,058	831,749
Second quarter.....	950,560	958,519	567,284	747,331
First quarter.....	891,027	936,699	553,869	739,903
1982				
Fourth quarter.....	839,446	919,587	515,458	801,725
Third quarter.....	1,042,692	1,050,459	541,679	892,089
Second quarter.....	1,034,470	1,013,031	522,812	914,882
First quarter.....	1,053,649	1,069,176	538,424	894,186
1981				
Fourth quarter.....	1,036,267	1,108,254	544,271	880,337
Third quarter.....	1,033,146	1,107,824	549,100	975,699
Second quarter.....	1,088,324	1,089,613	537,517	1,051,184
First quarter.....	1,076,078	1,079,031	516,342	1,060,934
1980				
Fourth quarter.....	1,195,889	1,275,911	537,005	1,099,108
Third quarter.....	1,104,194	1,219,044	509,818	1,214,453
Second quarter.....	1,082,258	1,178,318	500,533	1,295,748
First quarter.....	1,404,387	1,345,485	511,126	1,448,984

¹ Totals do not include Christmas tree lamps.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Jack Matthews, (301) 763-1462.

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Table 2. PRODUCTION, SHIPMENTS AND STOCKS OF ELECTRIC LAMPS, BY QUARTER, 1964

(Quantity in thousands of lamps, value in thousands of dollars)

Product code	Product description	Number of companies ¹	Production	Shipments (except shipments from other lamp manufacturers)						Stocks, end of year (quantity)
				Total		Domestic		Export		
				Quantity	Value	Quantity	Value	Quantity	Value	
TOTAL										
	All types ²	29	3,820,709	3,723,373	2,661,828	3,577,374	2,539,827	145,999	122,001	855,208
	Photographic incandescent.....	4	646,658	663,456	161,531	582,443	142,855	81,013	18,676	109,425
	Photoflash, including blue.....	3	633,225	650,626	74,761	571,393	67,307	79,233	7,474	105,576
36410 26	AC (all glass) lamps.....	3	948	1,483	215	1,469	214	14	1	1,484
36410 24	M-types (miniature).....	3	4,931	5,504	1,399	3,780	610	1,724	789	1,485
36410 21	Flash cubes, all types.....	3	625,511	642,200	72,631	565,291	66,243	76,909	6,388	99,810
36410 22	Other flash lamps.....	3	1,835	1,439	536	853	260	586	296	2,797
36410 28	Projection, bulk packed.....	3	2,633	2,311	12,405	2,302	12,298	9	107	824
36410 29	Projection, all other.....	3	9,109	8,726	67,883	7,150	57,647	1,576	10,236	2,553
36410 25	Photoflood, photom enlarger, and other photolamps.....	2	1,691	1,793	6,462	1,598	5,603	195	859	472
	Large incandescent, except photographic and Christmas tree.....	14	1,734,797	1,700,958	1,041,568	1,672,620	1,005,191	28,338	36,377	460,341
	General lighting:									
	15 to 150 watts, 100 to 130 volts, white lamps.....	5	594,301	621,872	233,226	620,575	232,851	1,297	375	121,315
36410 09	15 to 150 watts, 100 to 130 volts, all other.....	9	706,995	676,673	228,140	662,458	224,036	14,215	4,104	176,672
36410 12	Above 150 watts, 100 to 130 volts.....	7	27,147	26,365	32,161	25,988	31,562	377	599	10,559
36410 13	3-light, 100 to 130 volts.....	5	57,877	58,877	59,395	58,004	58,701	873	694	11,930
	Reflector, 100 to 130 volts:									
36410 14	Par type (pressed glass).....	7	40,570	39,800	123,951	36,420	113,398	3,380	10,553	8,296
36410 19	R type (blown glass).....	6	42,743	43,751	100,215	42,901	98,605	850	1,610	8,641
36410 15	Infrared (all types) 100 to 130 volts.....	3	3,963	4,237	19,419	4,080	18,121	157	1,298	705
36410 16	Traffic and street lighting, 100 to 130 volts.....	5	6,610	6,627	6,849	6,280	6,574	347	275	3,267
36410 17	Rough and vibration service, 100 to 130 volts.....	5	32,268	31,268	29,191	30,352	28,579	936	612	9,620
	Tungsten halogen (exclude 650 watt tungsten):									
36410 05	General lighting.....	5	4,255	3,863	41,690	3,687	39,476	176	2,214	1,394
36410 06	Other.....	3	1,805	1,720	29,979	1,477	24,710	243	5,260	378
36410 07	Decorative under 150 watts, 100 to 130 volts.....	5	55,944	49,787	35,566	49,250	35,103	537	463	19,150
36410 18	All other large incandescent (special purpose) ³	5	160,319	136,098	101,786	131,148	93,475	4,950	8,311	88,206
	Miniature incandescent.....	9	933,621	872,036	476,632	858,170	459,717	13,866	16,915	2,894
	Automobile glass and metal sealed beams:									
36410 61	OEM.....	5	40,123	40,009	111,800	40,009	111,800	(*)	(*)	1,912
36410 62	Replacement.....	5	46,854	45,040	142,186	39,739	127,630	5,301	14,556	7,565
	All other glass and metal, sealed beams:									
36410 65	OEM.....	4	11,642	10,472	30,413	10,472	30,413	(*)	(*)	3,130
36410 67	Replacement.....	5	17,005	16,308	53,921	16,308	53,921	(*)	(*)	2,642
	Automobile miniature other than glass and metal sealed beams:									
36410 33	OEM.....	4	46,113	424,466	44,260	424,466	44,260	(*)	(*)	94,074
36410 36	Replacement.....	4	188,591	170,467	39,552	162,506	37,317	7,961	2,235	52,784
	Flashlight:									
36410 71	OEM.....	1	7,887	7,540	1,172	7,540	1,172	-	-	3,595
36410 72	Replacement.....	2	4,846	5,871	1,684	5,538	1,604	333	80	2,825
	Radio panel:									
36410 73	OEM.....	4	19,334	15,649	1,891	15,648	1,891	1	-	13,337
36410 74	Replacement.....	3	6,824	6,839	1,241	6,569	1,187	270	44	2,575
	Subminiature lamps (T-2 and below):									
36410 75	OEM.....	7	91,234	90,116	21,865	90,116	21,865	(*)	(*)	13,908
36410 76	Replacement.....	4	10,226	10,037	10,599	10,037	10,599	(*)	(*)	1,889
	All other miniature: ⁴									
36410 77	OEM.....	6	28,842	29,222	16,048	29,222	16,048	(*)	(*)	7,630
36410 78	Replacement.....	7	10,226	10,037	10,599	10,037	10,599	(*)	(*)	5,028
	Electric discharge, except Christmas tree.....	15	505,633	486,923	982,097	464,141	932,064	22,762	50,033	72,548
36410 41	Germicidal, bacterial, and ozone.....	5	116	135	2,313	87	1,661	38	652	74
36410 42	Sun lamp bulbs.....	5	313	293	4,121	293	4,105	-	16	64
	Fluorescent, hot cathode.....	6	414,217	399,738	711,545	384,503	667,355	14,735	29,190	59,498
36410 43	Slimline.....	4	54,090	51,617	147,318	49,435	142,488	1,682	4,830	9,112
36410 46	Circular.....	3	6,426	5,605	14,754	5,483	14,259	122	495	2,076
36410 47	High output 800 milliamperes and over ⁵	5	29,232	28,931	113,975	27,715	109,677	918	4,298	4,421
36410 48	Other fluorescent lamps, below 40 watts.....	6	47,250	43,822	89,362	41,913	84,171	1,908	5,191	13,371
36410 45	Other fluorescent lamps, 40 watts and over ⁵	4	277,319	269,561	346,136	259,457	331,760	10,104	14,378	30,518
	Miscellaneous electrical discharge.....	11	90,987	87,257	264,118	79,246	243,943	8,009	20,175	12,972
36410 51	Glow.....	4	74,220	70,326	4,037	63,353	6,495	6,973	1,542	10,106
36410 52	General lighting high intensity lamps.....	5	16,610	16,779	243,100	15,760	225,885	1,019	17,215	2,259
36410 53	Sodium, photochemical and other miscellaneous electrical discharge.....	6	157	172	12,981	135	11,563	17	1,418	7
36410 55	Christmas tree lamps, all types ²	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 2. PRODUCTION, SHIPMENTS AND STOCKS OF ELECTRIC LAMPS, BY QUARTER: 1984--Continued

(Quantity in thousands of lamps; value in thousands of dollars)

Product code	Product description	Number of companies ¹	Production	Shipments (except shipments from other lamp manufacturers)						Stocks, end of year (quantity)
				Total		Domestic		Export		
				Quantity	Value	Quantity	Value	Quantity	Value	
FIRST QUARTER										
	All types ²	29	1,028,598	925,099	674,954	890,588	644,795	34,511	30,159	866,814
	Photographic incandescent.....	4	173,785	116,512	32,871	102,506	28,917	14,006	3,954	183,498
36410 26	Photoflash, including blue.....	3	169,879	113,590	13,266	100,025	12,021	13,565	1,265	179,268
36410 24	AG (all glass) lamps.....	3	555	421	59	418	59	3	-	2,155
36410 21	M-types (miniature).....	3	1,115	1,409	273	1,202	178	207	95	1,764
36410 22	Flash cubes, all types.....	3	168,174	111,501	12,830	98,157	11,711	13,344	1,119	173,172
36410 28	Other flash lamps.....	3	35	259	104	248	73	11	31	2,177
36410 29	Projection, bulk packed.....	3	685	523	2,753	521	2,733	2	20	664
36410 25	Projection, all other.....	3	2,842	1,959	15,273	1,568	12,792	391	2,481	3,053
36410 27	Photoflood, photoenlarger, and other photolamps.....	2	379	440	1,579	392	1,371	48	208	513
	Large incandescent, except photographic and Christmas tree.....	14	495,090	459,123	275,886	451,867	276,137	7,256	9,749	462,466
	General lighting:									
36410 08	15 to 150 watts, 100 to 130 volts, white lamps....	5	144,554	161,338	59,588	161,054	59,505	284	83	132,103
36410 09	15 to 150 watts, 100 to 130 volts, all other.....	9	225,230	186,105	61,903	182,684	60,944	3,421	959	185,468
36410 12	Above 150 watts, 100 to 130 volts.....	7	7,407	7,528	8,860	7,428	8,693	100	167	9,657
36410 13	3-light, 100 to 130 volts.....	5	16,436	17,468	17,393	17,235	17,212	233	181	11,897
	Reflector, 100 to 130 volts:									
36410 14	Par type (pressed glass).....	7	11,455	10,091	31,145	9,032	27,781	1,059	3,364	8,890
36410 19	R type (blown glass).....	6	12,301	11,882	26,525	11,548	25,929	334	596	10,267
36410 15	Infrared (all types) 100 to 130 volts.....	5	1,211	1,269	5,428	1,217	5,060	52	368	921
36410 16	Traffic and street lighting, 100 to 130 volts.....	5	1,398	1,709	1,729	1,635	1,670	74	59	2,975
36410 17	Rough and vibration service, 100 to 130 volts.....	5	9,297	8,860	8,231	8,648	8,098	212	133	9,085
	Tungsten halogen (exclude 650 watt tungsten):									
36410 05	General lighting.....	5	956	962	9,913	911	9,441	51	472	996
36410 06	Other.....	3	714	428	7,075	376	5,892	52	1,183	580
36410 07	Decorative under 150 watts, 100 to 130 volts.....	5	17,381	14,730	10,495	14,567	10,356	143	139	15,644
36410 18	All other large incandescent (special purpose) ³	5	46,750	36,753	27,601	35,532	25,556	1,247	2,045	73,983
	Miniature incandescent.....	9	230,412	225,430	126,804	221,443	122,483	3,987	4,321	159,421
	Automobile glass and metal sealed beams:									
36410 61	OEM.....	5	10,936	10,938	29,814	10,938	29,814	(*)	(*)	1,796
36410 62	Replacement.....	5	12,271	12,168	37,502	10,976	33,955	1,192	3,547	5,854
	All other glass and metal, sealed beams:									
36410 65	OEM.....	4	3,135	2,822	8,146	2,822	8,146	(*)	(*)	2,273
36410 67	Replacement.....	5	5,173	5,228	15,843	5,228	15,843	(*)	(*)	1,889
	Automobile miniature other than glass and metal sealed beams:									
36410 33	OEM.....	4	105,881	107,465	11,231	107,465	11,231	(*)	(*)	56,743
36410 36	Replacement.....	4	48,542	45,717	10,679	43,121	9,943	2,596	736	37,485
	Flashlight:									
36410 71	OEM.....	1	1,701	2,284	354	2,284	354	-	-	2,665
36410 72	Replacement.....	2	439	1,789	511	1,733	496	56	15	2,500
	Radio panel:									
36410 73	OEM.....	4	8,425	4,893	574	4,893	574	-	-	13,184
36410 74	Replacement.....	3	2,467	1,994	360	1,851	337	143	23	4,598
	Subminiature lamps (T-2 and below):									
36410 75	OEM.....	7	21,151	19,955	5,324	19,955	5,324	(*)	(*)	14,527
36410 76	Replacement.....	4	2,151	19,955	5,324	19,955	5,324	(*)	(*)	2,004
	All other miniature: ⁴									
36410 77	OEM.....	6	7,957	7,865	3,915	7,865	3,915	(*)	(*)	9,021
36410 78	Replacement.....	5	2,354	2,312	2,551	2,312	2,551	(*)	(*)	4,882
	Electric discharge, except Christmas tree.....	15	129,311	124,034	239,393	114,772	227,258	9,262	12,135	61,429
36410 41	Germinical, bacterial, and ozone.....	5	35	42	695	29	464	13	231	26
36410 42	Sun lamp bulbs.....	5	33	55	704	55	704	-	-	23
	Fluorescent, hot cathode.....	6	111,120	103,532	177,511	99,638	170,392	3,894	7,119	52,177
36410 43	Slimline.....	4	15,536	13,866	36,671	13,476	35,752	390	919	8,379
36410 46	Circular.....	3	1,803	1,613	4,185	1,567	4,009	46	176	1,545
36410 47	High output 800 milliwatt and over ⁵	5	6,795	6,965	27,139	6,719	26,131	246	1,008	3,452
36410 44	Other fluorescent lamps, below 40 watts.....	6	12,676	11,995	23,656	11,487	22,249	508	1,407	10,624
36410 45	Other fluorescent lamps, 40 watts and over ⁶	4	74,310	69,093	85,860	66,389	82,251	2,704	3,609	27,977
	Miscellaneous electrical discharge.....	11	18,123	20,405	60,483	15,050	55,698	5,355	4,785	9,203
36410 51	Glow.....	4	14,106	16,145	1,706	11,060	1,297	5,085	6,409	7,010
36410 52	General lighting high intensity lamps.....	5	3,977	4,224	55,464	3,957	51,411	267	4,053	2,181
36410 53	Sodium, photochemical and other miscellaneous electrical discharge.....	6	40	36	3,313	33	2,990	3	323	12
36410 55	Christmas tree lamps, all types ²	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

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Table 2. PRODUCTION, SHIPMENTS AND STOCKS OF ELECTRIC LAMPS, BY QUARTER: 1984--Continued

(Quantity in thousands of lamps; value in thousands of dollars)

Product code	Product description	Number of companies ¹	Production	Shipments (except shipments from other lamp manufacturers)						Stocks, end of year (quantity)
				Total		Domestic		Export		
				Quantity	Value	Quantity	Value	Quantity	Value	
SECOND QUARTER										
	All types ²	29	1,031,753	850,849	620,890	810,751	590,034	40,098	30,054	1,045,428
	Photographic incandescent.....	4	154,529	137,060	34,609	111,892	30,124	25,168	4,485	200,967
	Photoflash, including blue.....	3	151,107	133,971	14,672	109,116	12,232	26,855	2,440	196,404
36410 26	AC (all glass) lamps.....	3	389	337	65	327	44	10	1	2,207
36410 24	M-types (miniature).....	3	3,170	1,564	452	873	134	691	314	2,207
36410 21	Flash cubes, all types.....	3	146,600	131,349	14,056	107,710	12,004	23,639	2,052	188,423
36410 22	Other flash lamps.....	3	948	721	119	206	68	515	71	2,404
36410 28	Projection, bulk packed.....	3	628	640	3,196	438	3,173	2	23	852
36410 29	Projection, all other.....	3	2,372	2,051	15,304	1,784	13,478	287	1,826	3,374
36410 25	Photoflood, photoenlarger, and other photolamps.....	2	422	398	1,437	354	1,241	44	196	537
	Large incandescent, except photographic and Christmas tree.....	14	471,607	373,663	234,810	366,025	226,012	7,638	8,798	560,364
	General lighting:									
	15 to 150 watts, 100 to 130 volts, white lamps....	5	165,731	122,639	44,941	122,256	44,818	383	123	175,150
36410 09	15 to 150 watts, 100 to 130 volts, all other.....	9	186,972	158,207	53,500	154,344	52,344	3,863	1,156	214,233
36410 12	Above 150 watts, 100 to 130 volts.....	7	8,244	6,225	7,635	6,138	7,503	87	132	11,676
36410 13	3-light, 100 to 130 volts.....	5	15,976	12,653	12,653	12,407	12,454	249	202	15,177
	Reflector, 100 to 130 volts:									
36410 14	Par type (pressed glass).....	7	11,008	9,469	29,096	8,724	26,749	745	2,347	10,429
36410 19	R type (blown glass).....	6	11,608	10,298	23,285	10,097	22,882	201	403	11,577
36410 15	Infrared (all types) 100 to 130 volts.....	5	948	832	4,844	794	4,547	408	297	1,037
36410 16	Traffic and street lighting, 100 to 130 volts.....	5	2,109	1,807	1,889	1,724	1,826	83	61	3,277
36410 17	Rough and vibration service, 100 to 130 volts.....	5	8,892	8,189	7,516	7,861	7,301	328	215	9,788
	Tungsten halogen (exclude 650 watt tungsten):									
36410 05	General lighting.....	5	1,081	970	10,676	928	10,120	42	556	1,107
36410 06	Other.....	3	466	449	7,376	399	6,248	50	1,128	597
36410 07	Decorative under 150 watts, 100 to 130 volts.....	5	16,733	10,793	7,911	10,620	7,360	173	151	21,564
36410 18	All other large incandescent (special purpose) ³	5	41,879	31,129	23,488	29,733	21,461	1,396	2,027	84,732
	Miniature incandescent.....	9	265,565	218,118	116,682	215,381	112,662	2,737	4,020	206,867
	Automobile glass and metal sealed beams:									
36410 61	OEM.....	5	10,268	9,970	27,344	9,970	27,344	(*)	(*)	2,095
36410 62	Replacement.....	5	13,844	10,320	33,339	9,079	29,812	1,241	3,527	9,378
	All other glass and metal, sealed beams:									
36410 65	OEM.....	4	3,276	2,681	7,798	2,681	7,798	(*)	(*)	2,868
36410 67	Replacement.....	5	4,731	3,814	12,888	3,814	12,888	(*)	(*)	2,806
	Automobile miniature other than glass and metal sealed beams:									
36410 33	OEM.....	4	137,073	106,133	11,316	106,133	11,316	(*)	(*)	67,683
36410 36	Replacement.....	4	53,024	41,928	9,678	40,646	9,232	1,282	446	48,581
	Flashlight:									
36410 71	OEM.....	1	1,978	1,680	230	1,680	230	-	-	2,963
36410 72	Replacement.....	2	2,099	1,483	431	1,323	393	16	38	3,116
	Radio panel:									
36410 73	OEM.....	4	3,945	4,857	565	4,856	565	1	-	12,272
36410 74	Replacement.....	3	1,125	1,556	308	1,503	299	53	9	4,167
	Subminiature lamps (T-2 and below):									
36410 75	OEM.....	7	24,926	23,741	5,910	23,741	5,910	(*)	(*)	15,734
36410 76	Replacement.....	4	24,926	23,741	5,910	23,741	5,910	(*)	(*)	1,980
	All other miniature: ⁴									
36410 77	OEM.....	6	6,873	7,419	4,149	7,419	4,149	(*)	(*)	8,476
36410 78	Replacement.....	5	2,402	2,536	2,726	2,536	2,726	(*)	(*)	4,748
	Electric discharge, except Christmas tree.....	15	140,052	122,008	234,789	117,453	222,036	4,555	12,753	77,230
36410 41	Germicidal, bacterial, and ozone.....	5	525	34	606	427	678	87	128	417
36410 42	Sun lamp bulbs.....	5	79	69	977	69	971	-	6	33
	Fluorescent, hot cathode.....	6	111,160	97,916	171,281	94,133	163,480	3,783	7,793	65,421
36410 43	Slimline.....	4	15,575	12,983	34,188	12,537	32,840	446	1,348	10,971
36410 46	Circular.....	3	1,621	1,307	3,378	1,274	3,259	33	119	1,850
36410 47	High output 800 milliwatt and over ⁵	5	8,373	7,329	27,987	7,088	26,943	241	1,044	4,696
36410 44	Other fluorescent lamps, below 40 watts.....	6	12,923	11,335	22,598	10,738	20,889	597	1,709	12,212
36410 45	Other fluorescent lamps, 40 watts and over ⁶	4	72,668	64,962	83,130	62,496	79,557	2,466	3,573	35,683
	Miscellaneous electrical discharge.....	11	28,788	23,989	61,925	23,224	57,099	765	4,826	21,759
36410 51	Glow.....	4	24,426	19,920	2,484	19,421	2,119	499	365	89,279
36410 52	General lighting high intensity lamps.....	5	4,320	4,028	56,808	3,764	52,506	264	4,302	2,473
36410 53	Sodium, photochemical and other miscellaneous electrical discharge.....	6	42	41	2,633	39	2,474	2	159	67
36410 55	Christmas tree lamps, all types ²	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 2. PRODUCTION, SHIPMENTS AND STOCKS OF ELECTRIC LAMPS, BY QUARTER: 1984-Continued

(Quantity in thousands of lamps; value in thousands of dollars)

Quantity in thousands of lamps, value in thousands of dollars											
Product code	Product description	Number of companies ¹	Production	Shipments (except shipments from other lamp manufacturers)						Stocks, end of year (quantity)	
				Total		Domestic		Export			
				Quantity	Value	Quantity	Value	Quantity	Value		
THIRD QUARTER											
	All types ²	29	788,395	857,532	611,311	822,616	582,271	34,916	29,040	976,335	
	Photographic incandescent.....	4	135,193	136,366	34,636	116,452	30,288	19,914	4,548	199,792	
	Photoflash, including blue.....	3	132,268	133,594	15,074	114,059	13,061	19,535	2,013	195,076	
36410 20	AC (all glass) lamps.....	3	-	385	60	385	50	-	-	1,820	
36410 24	M-types (miniature).....	3	628	1,492	436	866	150	626	286	2,506	
36410 21	Flash cubes, all types.....	3	131,232	131,469	14,376	112,603	12,787	18,866	1,589	186,186	
36410 22	Other flash lamps.....	3	408	248	202	206	64	42	138	2,564	
36410 28	Projection, bulk packed.....	3	545	493	2,599	493	2,593	-	6	704	
36410 29	Projection, all other.....	3	1,933	1,907	15,848	1,563	13,461	344	2,387	3,400	
36410 25	Photoflood, photomicro, and other photolamps.....	2	447	572	1,315	337	1,173	35	142	612	
	Large incandescent, except photographic and Christmas tree.....	14	345,215	395,407	240,024	386,786	231,362	6,621	8,722	510,223	
	General lighting:										
36410 08	15 to 150 watts, 100 to 130 volts, white lamps....	5	121,300	149,439	57,820	149,073	57,722	366	98	147,055	
36410 09	15 to 150 watts, 100 to 130 volts, all other.....	9	141,478	155,468	53,007	152,021	52,099	3,447	908	200,250	
36410 12	Above 150 watts, 100 to 130 volts.....	7	4,910	5,494	6,850	5,424	6,729	70	121	11,092	
36410 13	3-light, 100 to 130 volts.....	5	10,627	12,918	2,134	11,875	12,023	143	111	15,786	
	Reflector, 100 to 130 volts:										
36410 14	Par type (pressed glass).....	7	7,689	8,491	26,639	7,703	24,312	788	2,127	9,627	
36410 19	B type (blown glass).....	6	8,341	9,535	21,900	9,343	21,552	192	348	10,183	
36410 15	Infrared (all types) 100 to 130 volts.....	5	667	873	4,130	838	3,812	935	318	831	
36410 16	Traffic and street lighting, 100 to 130 volts.....	5	1,314	1,472	1,508	1,435	1,476	37	52	3,119	
36410 17	Rough and vibration service, 100 to 130 volts.....	5	6,429	6,474	6,120	6,273	6,090	201	120	9,743	
	Tungsten halogen (exclude 650 watt sunguns):										
36410 05	General lighting.....	5	952	859	9,591	814	9,017	45	574	1,200	
36410 06	Other.....	3	404	414	7,642	353	6,225	61	1,417	587	
36410 07	Decorative under 150 watts, 100 to 130 volts.....	5	11,087	10,519	7,411	10,413	7,322	106	89	22,152	
36410 18	All other large incandescent (special purpose) ³	5	30,017	36,351	25,272	33,221	23,013	1,130	2,259	60,398	
	Miniature incandescent.....	9	199,501	208,123	103,438	204,463	99,532	3,660	3,906	198,242	
	Automobile glass and metal sealed beam:										
36410 61	ORM.....	5	9,522	9,252	26,319	9,252	26,319	(*)	(*)	2,365	
36410 62	Replacement.....	5	9,389	8,559	26,822	7,266	23,498	1,273	3,324	10,208	
	All other glass and metal, sealed beam:										
36410 65	ORM.....	4	2,434	2,323	6,670	2,323	6,670	(*)	(*)	2,979	
36410 67	Replacement.....	5	3,312	3,177	10,985	3,177	10,985	(*)	(*)	2,941	
	Automobile miniature other than glass and metal sealed beam:										
36410 33	ORM.....	4	96,507	104,734	10,930	104,734	10,930	(*)	(*)	79,456	
36410 36	Replacement.....	4	41,370	40,550	9,064	38,231	8,435	2,319	569	49,401	
	Flashlight:										
36410 71	ORM.....	1	1,538	2,240	357	2,240	357	-	-	2,261	
36410 72	Replacement.....	2	1,667	1,272	364	1,245	357	27	7	3,511	
	Radio panel:										
36410 73	ORM.....	4	2,555	1,885	250	1,885	250	-	-	12,942	
36410 74	Replacement.....	3	113	1,579	261	1,538	255	41	6	2,700	
	Subminiature lamps (T-2 and below):										
36410 75	ORM.....	7	22,479	23,394	5,423	23,394	5,423	(*)	(*)	15,361	
36410 76	Replacement.....	4	-	-	-	-	-	-	-	1,436	
	All other miniature: ⁴										
36410 77	ORM.....	6	6,201	6,617	3,614	6,617	3,614	(*)	(*)	8,061	
36410 78	Replacement.....	5	2,414	2,541	2,439	2,541	2,439	(*)	(*)	4,620	
	Electric discharge, except Christmas tree.....	15	108,486	117,636	233,013	112,915	221,149	4,721	11,864	68,078	
36410 41	Mercurial, bacterial, and other.....	5	60	53	558	622	4374	611	6,884	424	
36410 42	Sun lamp bulbs.....	5	61	53	192	53	191	-	-	40	
	Fluorescent, hot cathode.....	6	86,015	93,757	168,445	92,018	161,445	3,739	7,000	55,679	
36410 43	Slimline.....	4	12,052	12,916	35,183	12,514	34,048	402	1,135	10,167	
36410 46	Circular.....	3	1,302	1,236	3,129	1,208	3,203	28	126	2,125	
36410 47	High output 800 millamp and over ⁵	5	5,858	6,183	25,686	6,206	24,798	177	888	4,171	
36410 44	Other fluorescent lamps, below 40 watts.....	6	9,064	9,178	19,380	8,667	18,224	511	1,156	12,098	
36410 45	Other fluorescent lamps, 40 watts and over ⁶	4	57,539	66,044	84,867	63,423	81,172	2,621	3,695	27,178	
	Miscellaneous electrical discharge.....	11	22,370	21,793	63,214	20,822	58,539	971	4,679	12,335	
36410 51	Glow.....	4	18,699	17,873	1,922	17,126	1,527	747	395	10,165	
36410 52	General lighting high intensity lamps.....	5	3,629	3,880	57,745	3,661	53,659	219	3,880	2,222	
36410 53	Sodium, photochemical and other miscellaneous electrical discharge.....	6	42	80	3,551	435	3,153	5	398	8	
36410 55	Christmas tree lamps, all types ²	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	

See footnotes at end of table.

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Table 2. PRODUCTION, SHIPMENTS AND STOCKS OF ELECTRIC LAMPS, BY QUARTER: 1984--Continued

(Quantity in thousands of lamps; value in thousands of dollars)

Product code	Product description	Number of companies ¹	Production	Shipments (except shipments from other lamp manufacturers)						Stocks, end of year (quantity)
				Total		Domestic		Export		
				Quantity	Value	Quantity	Value	Quantity	Value	
FOURTH QUARTER										
	All types ²	29	971,898	1,089,897	754,673	1,053,423	721,927	36,474	32,746	855,208
	Photographic incandescent.....	4	183,151	273,518	59,215	251,593	53,526	21,925	5,689	109,425
36410 26	Photoflash, including blue.....	3	179,971	269,471	31,769	248,193	29,993	21,278	1,776	105,576
36410 24	AG (all glass) lamps.....	3	4	340	51	340	51	-	-	1,485
36410 21	M-types (miniature).....	3	18	1,039	238	839	146	200	92	1,485
36410 22	Flash cubes, all types.....	3	179,505	267,881	31,369	246,821	29,741	21,060	1,628	99,810
36410 28	Other flash lamps.....	3	444	211	111	193	55	18	56	2,797
36410 29	Projection, bulk packed.....	3	775	655	3,857	650	3,799	5	58	824
36410 29	Projection, all other.....	3	1,962	2,809	21,458	2,235	17,916	574	3,542	2,553
36410 25	Photoflood, photoenlarger, and other photolamps....	2	443	583	2,131	515	1,818	68	313	472
	Large incandescent, except photographic and Christmas tree.....	14	422,885	472,765	290,848	465,942	281,740	6,823	9,108	460,341
	General lighting:									
36410 08	15 to 150 watts, 100 to 130 volts, white lamps...	5	182,716	188,456	70,877	188,192	70,806	264	71	121,315
36410 09	15 to 150 watts, 100 to 130 volts, all other.....	9	153,315	176,893	59,730	173,409	58,649	3,484	1,081	176,672
36410 12	Above 150 watts, 100 to 130 volts.....	7	6,586	7,118	8,816	6,998	8,637	120	179	10,559
36410 13	3-light, 100 to 130 volts.....	5	14,878	16,735	17,215	16,487	17,015	248	200	11,930
	Reflector, 100 to 130 volts:									
36410 14	Par type (pressed glass).....	7	10,418	11,749	37,071	10,961	34,556	788	2,515	8,296
36410 19	R type (blown glass).....	6	10,493	12,036	28,505	11,913	28,242	123	261	8,441
36410 15	Infrared (all types) 100 to 130 volts.....	5	1,137	1,263	5,017	1,231	4,702	432	315	705
36410 16	Traffic and street lighting, 100 to 130 volts.....	5	1,789	1,639	1,723	1,486	1,600	153	123	3,267
36410 17	Rough and vibration service, 100 to 130 volts.....	5	7,650	7,765	7,324	7,570	7,180	195	144	9,628
	Tungsten halogen (exclude 650 watt sunlamps):									
36410 05	General lighting.....	5	1,266	1,072	11,510	1,034	10,898	38	612	1,394
36410 06	Other.....	3	221	429	7,886	349	6,345	80	1,541	378
36410 07	Decorative under 150 watts, 100 to 130 volts.....	5	10,743	13,745	9,749	13,650	9,665	95	84	19,150
36410 18	All other large incandescent (special purpose) ³	5	41,673	33,865	25,425	32,662	23,445	1,203	1,980	88,208
	Miniature incandescent.....	9	238,144	220,365	129,708	216,883	125,040	3,482	4,668	212,894
	Automobile glass and metal sealed beams:									
36410 61	OEM.....	5	139,396	9,849	28,323	9,449	28,323	(*)	(*)	1,912
36410 62	Replacement.....	5	11,350	13,993	44,523	12,098	40,365	1,595	4,158	7,565
	All other glass and metal, sealed beams:									
36410 65	OEM.....	4	2,797	2,646	7,799	2,646	7,799	(*)	(*)	3,130
36410 67	Replacement.....	5	3,789	4,089	14,205	4,089	14,205	(*)	(*)	2,642
	Automobile miniature other than glass and metal sealed beams:									
36410 33	OEM.....	4	120,752	106,134	10,783	106,134	10,783	(*)	(*)	94,074
36410 36	Replacement.....	4	45,655	42,272	10,191	40,508	40,707	1,764	484	52,784
	Flashlight:									
36410 71	OEM.....	1	2,670	1,336	231	1,336	231	-	-	3,595
36410 72	Replacement.....	2	4641	1,327	378	1,237	358	90	420	2,825
	Radio panel:									
36410 73	OEM.....	4	4,409	4,014	502	4,014	502	-	-	13,337
36410 74	Replacement.....	3	3,119	1,710	312	1,607	306	33	46	2,575
	Subminiature lamps (T-2 and below):									
36410 75	OEM.....	7	22,699	23,026	5,208	23,026	5,208	(*)	(*)	13,908
36410 76	Replacement.....	4								1,489
	All other miniature: ⁴									
36410 77	OEM.....	6	7,811	7,321	4,370	7,321	4,370	(*)	(*)	7,630
36410 78	Replacement.....	5	3,056	2,648	2,883	2,648	2,883	(*)	(*)	5,028
36410 41	Electric discharge, except Christmas tree.....	15	127,718	123,249	274,902	119,005	261,621	4,244	13,281	72,548
36410 42	Germsicidal, bacterial, and ozone.....	5	616	26	454	619	345	67	109	814
	Sun lamp bulbs.....	5	140	116	1,648	116	1,639	-	9	64
36410 43	Fluorescent, hot cathode.....	6	105,836	102,037	194,308	98,718	187,030	3,514	7,278	59,498
36410 46	Sineline.....	4	10,857	11,852	41,276	11,408	39,848	444	1,428	9,112
36410 47	Circular.....	3	1,404	1,453	3,862	1,438	3,788	15	74	2,076
36410 44	High output 800 milliamper and over ⁵	5	8,208	7,956	33,163	7,702	31,805	254	1,558	4,421
36410 45	Other fluorescent lamps, below 40 watts.....	6	12,587	11,314	23,728	11,021	22,809	293	919	13,371
	Other fluorescent lamps, 40 watts and over ⁶	4	72,802	68,462	92,279	67,149	88,780	2,313	3,499	30,518
36410 51	Miscellaneous electrical discharge.....	11	21,706	21,070	78,492	20,152	72,607	918	5,885	12,972
36410 52	Glow.....	4	16,989	16,388	1,925	15,746	1,552	662	373	10,706
36410 53	Sodium, photochemical and other miscellaneous electrical discharge.....	5	4,684	4,647	73,083	4,378	68,109	269	4,974	2,259
36410 55	Christmas tree lamps, all types ²	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Note: Beginning stocks, plus production, minus shipments, do not necessarily equal ending stocks.

The percent of estimation of each item is indicated as follows (see "Description of Survey" for a discussion of estimation of missing reports): *10 to 25 percent of this item is estimated. ²25 to 50 percent of this item is estimated. ³Over 50 percent of this item is estimated.

- Represents zero. *Data for export shipments are combined with domestic shipments to avoid disclosing figures for individual companies. (D) Data withheld to avoid disclosing figures for individual companies.

¹Number of companies engaged in the production, shipments, or stocks of each line.²Total does not include Christmas tree lamps.³Includes lamps for special services such as sign and display lighting, aviation, street, railway, spot and flood lighting, train, country home and showcase lighting, other items for special application, and large incandescent lamps under 15 watts and other than 100 to 130 volts.⁴Includes lamps for use in toys, pin games, surgical, medical, and dental instruments, and for special application.⁵Includes power groove, VHO, and SHO lamps.⁶Includes preheat rapid starting lamps.

Table 3. PRODUCTION, SHIPMENTS AND STOCKS OF ELECTRIC LAMPS, BY QUARTER: 1983

(Quantity in thousands of lamps; value in thousands of dollars)

Quantity in thousands of lamps; value in thousands of dollars)										
Product code	Product description	Number of companies ¹	Production	Shipments (except shipments from other lamp manufacturers)						Stocks, end of year (quantity)
				Total		Domestic		Export		
				Quantity	Value	Quantity	Value	Quantity	Value	
	TOTAL									
	All types ²	28	3,762,257	3,615,870	2,277,096	3,473,525	2,172,734	142,345	104,362	751,332
	Photographic incandescent	4	841,613	817,491	172,646	747,919	155,547	69,572	17,099	126,226
	Photoflash, including blue	3	828,781	804,793	91,124	736,758	84,372	68,035	6,752	122,980
36410 26	AG (all glass) lamps	3	3,191	2,297	294	2,293	293	4	1	2,022
36410 24	M-types (miniature)	3	6,094	6,157	1,004	5,467	788	690	216	2,058
36410 21	Flash cubes, all types	3	815,537	794,145	89,375	727,134	82,901	67,011	6,474	116,499
36410 22	Other flash lamps	3	3,959	2,194	451	1,864	390	330	61	2,401
36410 28	Projection, bulk packed	3	2,379	2,289	11,620	2,283	11,555	6	65	502
36410 29	Projection, all other	3	8,607	8,509	62,267	7,254	53,393	1,255	8,874	2,170
36410 25	Photoflood, photoenlarger, and other photolamps	2	1,846	1,900	7,635	1,624	6,227	276	1,408	574
	Large incandescent, except photographic and Christmas tree	13	1,690,033	1,592,637	902,863	1,567,670	873,585	24,967	29,278	414,068
	General lighting:									
	15 to 150 watts, 100 to 130 volts, white lamps	5	607,175	535,392	188,606	534,210	188,270	1,182	336	148,887
36410 08	15 to 150 watts, 100 to 130 volts, all other	8	690,553	679,058	216,283	666,339	212,521	12,719	3,762	134,016
36410 12	Above 150 watts, 100 to 130 volts	6	27,565	25,452	29,742	25,155	29,315	297	427	9,762
36410 13	3-light, 100 to 130 volts	5	53,518	52,829	49,629	51,621	48,749	1,208	880	12,841
	Reflector, 100 to 130 volts:									
	Par type (pressed glass)	6	36,002	34,636	103,056	32,086	94,699	2,550	8,357	7,541
36410 19	R type (blown glass)	5	40,219	39,057	82,190	38,454	80,972	603	1,218	9,849
36410 15	Infrared (all types) 100 to 130 volts	4	3,549	3,294	15,439	3,095	13,935	199	1,504	978
36410 16	Traffic and street lighting, 100 to 130 volts	5	6,875	6,584	6,393	6,274	6,216	310	177	3,286
36410 17	Rough and vibration service, 100 to 130 volts	4	24,885	23,781	23,686	23,395	23,325	386	361	8,633
	Tungsten halogen (exclude 650 watt sunlamps):									
	General lighting	5	3,738	3,489	36,583	3,313	34,498	176	2,085	1,002
36410 06	Other	3	1,336	1,281	23,917	1,102	19,939	179	3,978	294
36410 07	Decorative under 150 watts, 100 to 130 volts	4	34,221	39,412	30,811	38,909	30,407	503	404	12,993
36410 18	All other large incandescent (special purpose) ³	5	160,397	148,372	96,528	143,717	90,739	4,655	5,789	63,986
	Miniature incandescent	9	779,434	763,356	381,597	753,974	369,529	9,382	12,068	154,597
	Automobile glass and metal sealed beams:									
	OEM	5	30,910	30,917	81,601	30,917	81,601	(*)	(*)	1,798
36410 62	Replacement	5	42,536	39,745	107,337	35,637	96,578	4,108	10,759	5,751
	All other glass and metal, sealed beams:									
	OEM	4	10,239	9,943	25,070	9,943	25,070	(*)	(*)	2,113
36410 67	Replacement	5	13,856	12,994	40,691	12,994	40,691	(*)	(*)	1,945
	Automobile miniature other than glass and metal sealed beams:									
	OEM	4	365,957	354,888	37,637	354,888	37,637	(*)	(*)	58,327
36410 36	Replacement	4	154,524	162,259	36,636	157,548	35,419	4,711	1,217	34,660
	Flashlight:									
	OEM	2	8,740	8,830	1,374	8,830	1,374	-	-	3,249
36410 72	Replacement	3	7,668	8,249	2,162	7,945	2,109	304	53	3,851
	Radio panel:									
	OEM	4	20,488	18,106	1,953	18,103	1,953	3	-	9,652
36410 74	Replacement	3	6,511	5,825	1,084	5,569	1,045	256	39	4,125
	Subminiature lamps (T-2 and below):									
	OEM	7	85,529	77,974	21,691	77,974	21,691	(*)	(*)	13,207
36410 76	Replacement	4								2,150
	All other miniature: ⁴									
	OEM	6	24,592	25,610	14,662	25,610	14,662	(*)	(*)	8,929
36410 78	Replacement	5	7,884	8,016	9,699	8,016	9,699	(*)	(*)	4,840
	Electric discharge, except Christmas tree	15	451,177	442,386	819,990	403,962	774,073	38,424	45,917	56,441
	Germinical, bacterial, and ozone	6	130	159	2,386	127	1,976	32	410	30
36410 42	Sun lamp bulbs	5	195	205	2,530	203	2,491	2	39	46
	Fluorescent, hot cathode	6	375,559	365,726	593,041	352,809	567,391	12,917	25,650	44,679
36410 43	Slimline	4	52,350	51,253	128,962	49,837	125,379	1,416	3,583	6,709
36410 46	Circular	3	6,177	6,363	16,427	6,196	15,847	167	580	1,355
36410 47	High output 800 millilamp and over ⁵	5	24,817	24,208	92,235	23,054	87,470	1,154	4,765	3,812
36410 44	Other fluorescent lamps, below 40 watts	6	47,416	44,992	81,359	42,836	75,743	2,156	5,616	10,043
36410 45	Other fluorescent lamps, 40 watts and over ⁶	4	244,799	238,910	274,058	230,886	262,952	8,074	11,106	22,760
	Miscellaneous electrical discharge	11	75,293	76,296	222,033	50,823	202,215	25,473	19,818	11,686
36410 51	Glow	4	59,447	61,255	7,145	36,814	4,691	24,441	2,454	9,249
36410 52	General lighting high intensity lamps	5	15,441	14,628	201,530	13,636	184,784	992	16,746	2,427
36410 53	Sodium, photochemical and other miscellaneous electrical discharge	7	405	413	13,358	373	12,740	40	618	10
36410 55	Christmas tree lamps, all types ²	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

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Table 3. PRODUCTION, SHIPMENTS AND STOCKS OF ELECTRIC LAMPS, BY QUARTER: 1983--Continued

(Quantity in thousands of lamps; value in thousands of dollars)

Product code	Product description	Number of companies ¹	Production	Shipments (except shipments from other lamp manufacturers)						Stocks, end of year (quantity)
				Total		Domestic		Export		
				Quantity	Value	Quantity	Value	Quantity	Value	
FIRST QUARTER										
	All types ²	28	945,360	833,662	553,315	796,133	528,509	37,529	24,806	722,886
	Photographic incandescent.....	4	200,526	127,147	32,939	106,003	28,235	21,144	4,704	175,483
36410 26	Photoflash, including blue.....	3	197,377	124,027	14,049	103,293	11,898	20,734	2,151	172,344
36410 24	AG (all glass) lamps.....	3	546	609	87	609	87	-	-	1,066
36410 21	M-types (miniature).....	3	2,477	1,605	279	1,398	213	207	66	2,995
36410 22	Flash cubes, all types.....	3	193,463	121,179	13,536	100,675	11,466	20,504	2,070	167,389
36410 28	Other flash lamps.....	3	891	634	147	611	132	23	15	894
36410 29	Projection, bulk packed.....	3	469	497	2,526	496	2,512	1	14	384
36410 25	Projection, all other.....	4	2,237	2,141	14,215	1,806	11,986	335	2,229	2,168
	Photoflood, photomicro, and other photolamps.....	2	443	482	2,149	408	1,839	74	310	587
	Large incandescent, except photographic and Christmas tree.....	13	448,832	420,739	232,636	414,643	225,858	5,896	6,778	342,873
	General lighting:									
36410 08	15 to 150 watts, 100 to 130 volts, white lamps....	5	159,853	138,659	48,253	138,498	48,147	361	106	98,098
36410 09	15 to 150 watts, 100 to 130 volts, all other.....	8	192,324	179,392	55,349	176,718	54,512	2,674	837	135,578
36410 12	Above 150 watts, 100 to 130 volts.....	6	7,953	7,210	7,874	7,105	7,743	105	131	6,420
36410 13	3-light, 100 to 130 volts.....	5	13,684	15,193	14,242	14,896	14,014	297	228	10,778
	Reflector, 100 to 130 volts:									
36410 14	Par type (pressed glass).....	6	8,086	8,137	23,831	7,742	22,399	395	1,432	6,231
36410 19	R type (blown glass).....	5	10,002	10,034	21,586	9,446	21,253	188	333	8,631
36410 15	Infrared (all types) 100 to 130 volts.....	4	1,189	856	3,966	786	3,554	70	412	1,057
36410 16	Traffic and street lighting, 100 to 130 volts.....	5	1,688	1,696	1,636	1,591	1,584	105	52	2,959
36410 17	Rough and vibration service, 100 to 130 volts.....	4	6,125	6,718	6,201	6,589	6,096	129	105	6,936
	Tungsten halogen (exclude 650 watt tungsten):									
36410 05	General lighting.....	5	856	857	8,828	605	8,248	52	580	770
36410 06	Other.....	3	299	287	5,363	247	4,506	40	857	250
36410 07	Decorative under 150 watts, 100 to 130 volts.....	4	9,541	11,550	10,140	11,411	10,030	139	110	13,168
36410 18	All other large incandescent (special purpose) ³	5	37,232	39,950	23,367	38,609	23,772	1,341	1,595	49,497
	Miniature incandescent.....	9	184,319	175,454	90,795	174,305	88,318	1,149	2,477	151,543
	Automobile glass and metal sealed beams:									
36410 61	OEM.....	5	6,267	7,167	18,288	7,167	18,288	(*)	(*)	905
36410 62	Replacement.....	5	10,987	9,928	26,579	9,006	24,136	922	2,443	4,076
	All other glass and metal, sealed beams:									
36410 65	OEM.....	5	2,727	2,532	6,389	2,532	6,389	(*)	(*)	1,770
36410 67	Replacement.....	5	3,264	2,978	9,580	2,978	9,580	(*)	(*)	1,940
	Automobile miniature other than glass and metal sealed beams:									
36410 33	OEM.....	4	80,757	76,808	8,315	76,808	8,315	(*)	(*)	51,043
36410 36	Replacement.....	4	33,180	40,114	8,948	40,114	8,948	(*)	(*)	35,796
	Flashlight:									
36410 71	OEM.....	2	1,666	1,673	263	1,673	263	-	-	3,764
36410 72	Replacement.....	3	2,093	2,311	590	2,201	570	110	20	4,283
	Radio panel:									
36410 73	OEM.....	4	8,995	5,251	497	5,251	497	(*)	(*)	13,103
36410 74	Replacement.....	3	2,108	1,767	251	1,650	237	117	14	3,780
	Subminiature lamps (T-2 and below):									
36410 75	OEM.....	7	25,452	18,458	5,592	18,458	5,592	(*)	(*)	13,196
36410 76	Replacement.....	4								2,607
	All other miniature: ⁴									
36410 77	OEM.....	6	5,698	4,619	3,052	4,619	3,052	(*)	(*)	11,030
36410 78	Replacement.....	5	1,125	1,848	2,451	1,848	2,451	(*)	(*)	4,250
	Electric discharge, except Christmas tree.....	16	111,703	110,322	196,945	100,882	186,086	9,340	10,847	52,987
36410 41	Germinical, bacterial, and ozone.....	6	33	41	618	47	852	87	89	54
36410 42	Sun lamp bulbs.....	5	60	60	748	60	732	-	16	57
	Fluorescent, hot cathode.....	6	92,321	89,064	139,543	85,668	133,647	3,396	5,896	42,054
36410 43	Slimline.....	4	13,550	12,675	31,447	12,505	30,603	370	844	6,362
36410 46	Circular.....	3	1,246	1,732	4,435	1,694	4,303	38	132	1,056
36410 47	High output 800 milliwatt and over ⁵	5	6,131	5,879	21,493	5,690	20,352	289	1,141	3,356
36410 44	Other fluorescent lamps, below 40 watts.....	6	13,009	11,994	20,673	11,451	19,446	543	1,227	8,801
36410 45	Other fluorescent lamps, 40 watts and over ⁶	4	38,385	56,484	61,495	54,328	58,943	2,156	2,552	22,479
	Miscellaneous electrical discharge.....	11	19,769	21,157	56,036	15,220	51,190	5,937	4,846	10,822
36410 51	Glow.....	4	15,166	17,329	1,911	11,648	1,355	5,681	556	68,895
36410 52	General lighting high intensity lamps.....	5	4,045	3,747	51,308	3,494	47,059	253	4,249	1,911
36410 53	Sodium, photochemical and other miscellaneous electrical discharge.....	7	78	81	2,817	78	2,776	3	41	16
36410 55	Christmas tree lamps, all types ²	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 3. PRODUCTION, SHIPMENTS AND STOCKS OF ELECTRIC LAMPS, BY QUARTER: 1983--Continued

(Quantity in thousands of lamps; value in thousands of dollars)

(quantity in thousands of lamps; value in thousands of dollars)											
Product code	Product description	Number of companies ¹	Production	Shipments (except shipments from other lamp manufacturers)						Stocks, end of year (quantity)	
				Total		Domestic		Export			
				Quantity	Value	Quantity	Value	Quantity	Value		
SECOND QUARTER											
	All types ²	28	1,010,445	853,082	541,189	821,353	514,817	31,729	26,372	879,608	
	Photographic incandescent.....	4	238,295	178,249	40,304	169,336	36,688	8,913	3,616	235,529	
36410 26	Photoflash, including blue.....	3	234,896	175,128	19,856	166,615	18,970	8,513	886	232,111	
36410 24	AG (all glass) lamps.....	3	1,498	548	78	548	78	-	-	2,015	
36410 21	M-types (miniature).....	3	1,411	1,594	309	1,383	226	211	83	2,811	
36410 22	Flash cubes, all types.....	3	230,630	172,427	19,335	164,131	18,538	8,296	797	225,593	
36410 28	Other flash lamps.....	3	1,357	559	134	553	128	6	6	1,692	
36410 29	Projection, bulk packed.....	3	709	571	2,949	569	2,931	2	18	522	
36410 25	Projection, all other.....	3	2,148	2,057	15,564	1,743	13,282	314	2,282	2,259	
	Photoflood, photoenlarger, and other photolamps.....	2	342	493	1,935	409	1,505	84	430	637	
	Large incandescent, except photographic and Christmas trees.....	13	448,552	360,308	206,811	353,239	198,251	7,069	8,560	431,018	
	General lighting:										
36410 08	15 to 150 watts, 100 to 130 volts, white lamps....	5	162,107	108,339	37,078	108,083	37,003	256	75	151,866	
36410 09	15 to 150 watts, 100 to 130 volts, all other.....	8	177,924	160,232	50,826	156,571	49,812	3,661	1,014	153,147	
36410 12	Above 150 watts, 100 to 130 volts.....	6	8,222	6,009	7,117	5,954	6,996	55	121	10,604	
36410 13	3-light, 100 to 130 volts.....	5	15,495	10,940	9,800	10,611	9,557	329	243	15,333	
	Reflector, 100 to 130 volts:										
36410 14	Par type (pressed glass).....	6	10,168	8,518	24,083	7,750	21,549	768	2,534	7,879	
36410 19	R type (blown glass).....	5	11,438	9,359	20,030	9,227	19,733	132	297	10,734	
36410 15	Infrared (all types) 100 to 130 volts.....	4	873	580	3,095	543	2,753	37	342	1,351	
36410 16	Traffic and street lighting, 100 to 130 volts.....	5	1,885	1,786	1,720	1,679	1,652	107	68	3,087	
36410 17	Rough and vibration service, 100 to 130 volts.....	4	7,206	5,945	5,914	5,848	5,829	97	85	8,197	
	Tungsten halogen (exclude 650 watt tungsten):										
36410 05	General lighting.....	5	970	893	9,159	849	8,649	44	510	847	
36410 06	Other.....	3	355	348	6,299	296	5,170	52	1,129	258	
36410 07	Decorative under 150 watts, 100 to 130 volts.....	4	8,611	11,084	8,112	10,961	8,002	123	110	10,695	
36410 18	All other large incandescent (special purpose) ³	5	43,298	36,275	23,578	34,867	21,546	1,408	2,032	57,020	
	Miniature incandescent.....	9	198,929	198,957	93,133	195,347	89,529	3,610	3,604	148,979	
	Automobile glass and metal sealed beams:										
36410 61	OEM.....	5	6,564	6,779	17,747	6,779	17,747	(*)	(*)	691	
36410 62	Replacement.....	5	11,066	9,639	26,154	8,434	23,055	1,205	3,099	5,503	
	All other glass and metal, sealed beams:										
36410 65	OEM.....	5	2,757	2,391	6,027	2,391	6,027	(*)	(*)	2,136	
36410 67	Replacement.....	5	3,682	3,155	10,292	3,155	10,292	(*)	(*)	1,897	
	Automobile miniature other than glass and metal sealed beams:										
36410 33	OEM.....	4	88,737	96,266	10,291	96,266	10,291	(*)	(*)	43,577	
36410 36	Replacement.....	4	43,633	43,089	9,374	40,813	8,892	2,276	482	36,340	
	Flashlight:										
36410 71	OEM.....	2	1,837	2,620	400	2,620	400	-	-	2,981	
36410 72	Replacement.....	3	2,155	1,893	502	1,816	488	77	14	4,544	
	Radio panel:										
36410 73	OEM.....	4	5,622	3,970	426	3,970	426	-	-	14,755	
36410 74	Replacement.....	3	1,694	1,299	277	1,247	268	52	9	4,175	
	Subminiature lamps (T-2 and below):										
36410 75	OEM.....	7	19,098	18,354	5,105	18,354	5,105	(*)	(*)	13,981	
36410 76	Replacement.....	4								2,563	
	All other miniature: ⁴										
36410 77	OEM.....	6	6,487	7,080	3,737	7,080	3,737	(*)	(*)	10,431	
36410 78	Replacement.....	5	3,597	2,422	2,801	2,422	2,801	(*)	(*)	5,425	
	Electric discharge, except Christmas tree.....	15	126,669	115,568	200,941	103,431	190,349	12,137	10,592	64,082	
36410 41	Germinical, bacterial, and ozone.....	6	629	36	510	630	649	66	677	46	
36410 42	Sun lamp bulbs.....	5	68	57	724	56	715	1	9	67	
	Fluorescent, hot cathode.....	6	100,387	91,562	144,052	88,190	138,043	3,372	6,004	50,878	
36410 43	Slimline.....	4	14,030	12,382	29,995	12,015	29,207	367	788	8,010	
36410 46	Circular.....	3	1,576	1,671	4,148	1,614	3,969	57	179	960	
36410 47	High output 800 milliwatt and over ⁵	5	7,011	6,196	23,024	5,895	21,921	301	1,103	4,171	
36410 44	Other fluorescent lamps, below 40 watts.....	5	13,364	11,531	70,484	10,999	19,186	532	1,298	10,634	
36410 45	Other fluorescent lamps, 40 watts and over ⁶	4	64,406	59,782	66,401	57,667	63,760	2,115	2,641	27,103	
	Miscellaneous electrical discharge.....	11	26,185	23,913	55,649	15,155	51,152	8,758	4,497	13,091	
36410 51	Glow.....	4	21,716	20,062	2,187	11,517	1,356	8,545	8831	10,548	
36410 52	General lighting high intensity lamps.....	5	4,335	3,724	49,619	3,523	46,136	201	3,483	2,521	
36410 53	Sodium, photochemical and other miscellaneous electrical discharge.....	7	134	127	3,843	115	3,660	12	183	22	
36410 55	Christmas tree lamps, all types ²	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	

See footnotes at end of table.

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Table 3. PRODUCTION, SHIPMENTS AND STOCKS OF ELECTRIC LAMPS, BY QUARTER: 1984--Continued

(Quantity in thousands of lamps; value in thousands of dollars)

Product code	Product description	Number of companies ¹	Production	Shipments (except shipments from other lamp manufacturers)						Stocks, end of year (quantity)	
				Total		Domestic		Export			
				Quantity	Value	Quantity	Value	Quantity	Value		
THIRD QUARTER											
	All types ²	28	805,252	819,905	525,373	787,205	500,684	32,700	24,689	868,346	
	Photographic incandescent.....	4	184,200	164,791	39,816	149,470	36,115	15,321	3,701	254,937	
36410 26	Photoflash, including blue.....	3	181,483	161,836	20,182	146,847	18,808	14,989	1,374	251,756	
36410 24	AG (all glass) lamps.....	3	573	415	44	411	43	4	1	2,173	
36410 21	M-types (miniature).....	3	113	1,283	192	1,033	129	250	63	1,640	
36410 22	Flash cubes, all types.....	3	179,657	159,621	19,878	145,147	18,596	14,474	1,282	245,629	
36410 28	Other flash lamps.....	3	1,140	517	68	256	40	261	28	2,314	
36410 29	Projection, bulk packed.....	3	462	563	2,837	561	2,819	2	18	421	
36410 25	Projection, all other.....	3	1,889	1,989	15,152	1,718	13,200	271	1,952	2,159	
	Photoflood, photoenlarger, and other photolamps.....	2	366	403	1,645	344	1,288	59	357	601	
	Large incandescent, except photographic and Christmas trees.....	13	354,274	376,982	208,949	370,392	202,536	6,590	6,413	412,459	
	General lighting:										
	15 to 150 watts, 100 to 130 volts, white lamps....	5	115,881	134,176	46,998	133,818	46,909	358	89	133,571	
36410 09	15 to 150 watts, 100 to 130 volts, all other.....	8	159,213	160,501	50,559	156,538	49,528	3,963	1,031	151,858	
36410 12	Above 150 watts, 100 to 130 volts.....	6	4,496	5,391	6,430	5,312	6,352	79	78	9,709	
36410 13	3-light, 100 to 130 volts.....	5	10,289	11,038	10,343	10,891	10,225	147	118	14,585	
	Reflector, 100 to 130 volts:										
36410 14	Par type (pressed glass).....	6	7,422	8,007	24,293	7,314	22,215	693	2,078	7,294	
36410 19	R type (blown glass).....	5	8,295	8,654	18,778	8,519	18,505	135	273	10,375	
36410 15	Infrared (all types) 100 to 130 volts.....	4	453	777	3,668	712	3,252	65	416	1,025	
36410 16	Traffic and street lighting, 100 to 130 volts.....	5	1,637	1,459	1,382	1,429	1,361	30	21	3,265	
36410 17	Rough and vibration service, 100 to 130 volts.....	4	5,083	5,117	5,165	5,026	5,074	91	91	8,163	
	Tungsten halogen (exclude 650 watt sunglasses):										
36410 05	General lighting.....	5	842	772	8,333	731	7,855	41	478	905	
36410 06	Other.....	3	340	284	5,513	251	4,767	33	746	313	
36410 07	Decorative under 150 watts, 100 to 130 volts.....	4	6,314	6,927	5,268	6,815	5,181	112	87	14,244	
36410 18	All other large incandescent (special purpose) ³	5	34,009	33,879	22,219	33,036	21,312	843	907	57,152	
	Miniature incandescent.....	9	173,737	179,556	86,207	177,010	82,965	2,546	3,242	142,402	
	Automobile glass and metal sealed beams:										
36410 61	OEM.....	5	8,398	7,639	19,691	7,639	19,691	(*)	(*)	1,450	
36410 62	Replacement.....	5	9,877	8,199	21,709	7,007	18,805	1,192	2,904	7,182	
	All other glass and metal, sealed beams:										
36410 65	OEM.....	5	2,127	2,450	5,610	2,450	5,610	(*)	(*)	2,055	
36410 67	Replacement.....	5	3,090	2,793	8,499	2,793	8,499	(*)	(*)	2,194	
	Automobile miniature other than glass and metal sealed beams:										
36410 33	OEM.....	4	84,671	86,315	9,176	86,315	9,176	(*)	(*)	41,914	
36410 36	Replacement.....	4	32,266	36,284	8,469	35,068	8,151	1,216	318	32,322	
	Flashlight:										
36410 71	OEM.....	2	2,440	2,043	313	2,043	313	-	-	3,378	
36410 72	Replacement.....	3	1,708	1,849	488	1,783	477	66	11	4,402	
	Radio panel:										
36410 73	OEM.....	4	2,235	3,780	444	3,780	444	-	-	13,210	
36410 74	Replacement.....	3	1,569	1,162	246	1,090	237	72	9	4,582	
	Subminiature lamps (T-2 and below):										
36410 75	OEM.....	7	19,346	18,638	5,395	18,638	5,395	(*)	(*)	13,968	
36410 76	Replacement.....	4								2,282	
	All other miniature: ⁴										
36410 77	OEM.....	6	4,408	6,480	3,794	6,480	3,794	(*)	(*)	8,360	
36410 78	Replacement.....	5	1,602	1,924	2,373	1,924	2,373	(*)	(*)	5,103	
	Electric discharge, except Christmas tree.....	15	93,041	98,576	190,401	90,333	179,068	8,243	11,333	58,548	
36410 41	Germicidal, bacterial, and ozone.....	6	623	41	632	631	6495	810	8137	27	
36410 42	Sun lamp bulbs.....	5	39	40	510	40	505	-	5	65	
	Fluorescent, hot cathode.....	6	79,319	83,626	137,560	80,756	131,177	2,870	6,383	46,573	
36410 43	Slimline.....	4	10,548	10,067	30,418	11,718	29,415	349	1,003	6,492	
36410 46	Circular.....	3	1,724	1,391	3,582	1,357	3,450	34	132	1,293	
36410 47	High output 800 milliamp and over ⁵	5	5,226	5,421	21,099	5,147	19,860	274	1,239	3,976	
36410 44	Other fluorescent lamps, below 40 watts.....	6	10,104	10,234	18,353	9,740	16,999	494	1,354	10,505	
36410 45	Other fluorescent lamps, 40 watts and over ⁶	4	51,717	54,513	64,108	52,794	61,453	1,719	2,655	24,307	
	Miscellaneous electrical discharge.....	11	13,660	14,869	51,699	9,506	46,891	5,363	4,608	11,883	
36410 51	Glow.....	4	10,109	11,437	1,466	6,339	971	5,098	6495	89,220	
36410 52	General lighting high intensity lamps.....	5	3,455	3,327	46,841	3,078	42,783	249	4,058	2,650	
36410 53	Sodium, photochemical and other miscellaneous electrical discharge.....	7	c ⁹ 6	105	3,392	c ⁹ 89	b ³ 137	c ¹ 6	255	c ¹ 3	
36410 55	Christmas tree lamps, all types ²	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	

See footnotes at end of table.

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Table 3. PRODUCTION, SHIPMENTS AND STOCKS OF ELECTRIC LAMPS, BY QUARTER: 1983--Continued

(Quantity in thousands of lamps; value in thousands of dollars)

(quantity in thousands of lamps; value in thousands of dollars)										
Product code	Product description	Number of companies ¹	Production	Shipments (except shipments from other lamp manufacturers)						Stocks, end of year (quantity)
				Total		Domestic		Export		
				Quantity	Value	Quantity	Value	Quantity	Value	
FOURTH QUARTER										
	All types ²	28	1,001,180	1,109,221	657,219	1,068,834	628,724	40,387	28,495	751,332
	Photographic incandescent.....	4	218,592	347,304	59,587	323,110	54,509	24,194	5,078	126,226
	Photoflash, including blue.....	3	215,025	343,802	37,037	320,003	34,696	23,799	2,341	122,980
36410 26	AG (all glass) lamps.....	3	574	725	85	725	85	-	-	2,020
36410 24	M-types (miniature).....	3	2,093	1,675	224	1,653	220	22	4	2,058
36410 21	Flash cubes, all types.....	3	211,787	340,918	36,626	317,181	34,301	23,737	2,325	116,499
36410 22	Other flash lamps.....	3	571	484	102	444	90	40	12	2,401
36410 28	Projection, bulk packed.....	3	739	658	3,308	657	3,293	1	15	502
36410 29	Projection, all other.....	3	2,333	2,322	17,336	1,987	14,925	335	2,411	2,170
36410 25	Photoflood, photoenlarger, and other photolamps.....	2	495	522	1,906	463	1,595	59	311	574
	Large incandescent, except photographic and Christmas tree.....	13	438,375	434,608	254,467	429,196	246,940	5412	7,527	414,068
	General lighting:									
	15 to 150 watts, 100 to 130 volts, white lamps...	5	169,334	154,018	56,277	153,811	56,211	207	66	148,887
36410 09	15 to 150 watts, 100 to 130 volts, all other.....	8	161,092	178,933	59,549	176,512	58,669	2,421	880	134,016
36410 12	Above 150 watts, 100 to 130 volts.....	6	6,894	6,842	8,321	6,784	8,224	58	97	9,762
36410 13	3-light, 100 to 130 volts.....	5	14,050	15,658	15,244	15,223	14,953	435	291	12,841
	Reflector, 100 to 130 volts:									
	Par type (pressed glass).....	6	10,326	9,974	30,849	9,280	28,536	694	2,313	7,541
36410 19	R type (blown glass).....	5	10,484	11,010	21,796	10,862	21,481	148	315	9,849
36410 15	Infrared (all types) 100 to 130 volts.....	4	1,034	1,081	4,710	1,054	4,376	27	334	978
36410 16	Traffic and street lighting, 100 to 130 volts.....	5	1,665	1,643	1,655	1,575	1,619	68	36	3,286
36410 17	Rough and vibration service, 100 to 130 volts.....	4	6,471	6,001	6,406	5,932	6,326	69	80	8,633
	Tungsten halogen (exclude 650 watt sunlamps):									
	General lighting.....	5	1,070	967	10,263	928	9,746	39	517	1,002
36410 06	Other.....	3	342	362	6,742	308	5,496	54	1,246	294
36410 07	Decorative under 150 watts, 100 to 130 volts.....	4	9,755	9,851	7,291	9,722	7,194	129	97	12,993
36410 18	All other large incandescent (special purpose) ³	5	45,858	38,268	25,364	37,205	24,109	1,043	1,255	63,986
	Miniature incandescent.....	9	224,449	209,389	111,462	207,312	108,717	2,077	2,745	154,597
	Automobile glass and metal sealed beams:									
36410 61	OEM.....	5	9,681	9,332	25,875	9,332	25,875	(*)	(*)	1,798
36410 62	Replacement.....	5	10,606	11,979	32,895	11,190	30,582	789	2,313	5,751
	All other glass and metal, sealed beams:									
36410 65	OEM.....	4	2,628	2,570	7,044	2,570	7,044	(*)	(*)	2,113
36410 67	Replacement.....	5	3,820	4,068	12,320	4,068	12,320	(*)	(*)	1,945
	Automobile miniature other than glass and metal sealed beams:									
36410 33	OEM.....	4	111,792	95,499	9,855	95,499	9,855	(*)	(*)	58,327
36410 36	Replacement.....	4	45,445	42,772	9,845	41,553	9,428	1,219	417	34,660
	Flashlight:									
36410 71	OEM.....	2	2,797	2,494	398	2,494	398	-	-	3,249
36410 72	Replacement.....	3	1,712	2,196	582	2,145	574	51	6	3,851
	Radio panel:									
36410 73	OEM.....	4	3,636	5,105	586	5,102	586	3	-	9,652
36410 74	Replacement.....	3	1,140	1,597	310	1,582	303	15	7	4,125
	Subminiature lamps (T-2 and below):									
36410 75	OEM.....	7	21,633	22,524	5,599	22,524	5,599	(*)	(*)	13,207
36410 76	Replacement.....	4	21,633	22,524	5,599	22,524	5,599	(*)	(*)	2,150
	All other miniature: ⁴									
36410 77	OEM.....	6	7,999	7,431	4,079	7,431	4,079	(*)	(*)	8,929
36410 78	Replacement.....	5	1,560	1,822	2,074	1,822	2,074	(*)	(*)	4,840
	Electric discharge, except Christmas tree.....	15	119,764	117,920	231,703	109,216	218,558	8,704	13,145	56,441
36410 41	Germicidal, bacterial, and ozone.....	6	645	41	620	532	513	89	6107	30
36410 42	Sun lamp bulbs.....	5	28	48	548	47	539	1	9	46
	Fluorescent, hot cathode.....	6	103,532	101,474	171,886	98,195	164,524	3,279	7,362	44,679
36410 43	Slimline.....	4	14,222	13,929	37,102	13,599	36,154	330	944	6,709
36410 46	Circular.....	3	1,631	1,569	4,262	1,531	4,125	38	137	1,355
36410 47	High output 800 milliamper and over ⁵	5	6,449	6,612	26,619	6,322	25,337	290	1,282	3,812
36410 44	Other fluorescent lamps, below 40 watts.....	6	10,939	11,233	21,849	10,646	20,112	587	1,737	10,043
36410 45	Other fluorescent lamps, 40 watts and over ⁶	4	70,291	68,131	82,054	66,097	78,796	2,034	3,258	22,760
	Miscellaneous electrical discharge.....	11	16,159	16,357	58,649	10,942	52,982	5,415	5,667	11,686
36410 51	Glow.....	4	12,456	12,427	1,581	47,310	1,009	5,117	4572	89,249
36410 52	General lighting high intensity lamps.....	5	3,606	3,830	53,762	3,541	48,806	289	4,956	2,427
36410 53	Sodium, photochemical and other miscellaneous electrical discharge.....	7	97	180	3,306	891	3,167	69	139	10
36410 55	Christmas tree lamps, all types ²	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Note: Beginning stocks, plus production, minus shipments, do not necessarily equal ending stocks.

The percent of estimation of each item is indicated as follows (see "Description of Survey" for a discussion of estimation of missing reports): ^a10 to 25 percent of this item is estimated. ^b25 to 50 percent of this item is estimated. ^cOver 50 percent of this item is estimated.

- Represents zero. *Data for export shipments are combined with domestic shipments to avoid disclosing figures for individual companies. (D) Data withheld to avoid disclosing figures for individual companies.

¹Number of companies engaged in the production, shipments, or stocks of each line.²Total does not include Christmas tree lamps.³Includes lamps for special services such as sign and display lighting, aviation, street, railway, spot and flood lighting, train, country home and showcase lighting, other items for special application, and large incandescent lamps under 15 watts and other than 100 to 130 volts.⁴Includes lamps for use in toys, pin games, surgical, medical, and dental instruments, and for special application.⁵Includes power groove, VHO, and SHO lamps.⁶Includes preheat rapid starting lamps.

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Table 4. VALUE OF DOMESTIC SHIPMENTS OF SELECTED ELECTRIC LAMPS: JANUARY 1983 TO DECEMBER 1984

(Thousands of dollars)

Period	Total	Large Incandescent (except photo)	General lighting high intensity	Fluorescent hot cathode
1984				
Total.....	1,913,431	1,005,191	225,885	682,355
Fourth quarter.....	536,879	281,740	68,109	187,030
December.....	172,740	84,885	22,662	65,193
November.....	168,920	86,494	22,564	59,862
October.....	195,219	110,361	22,883	61,975
Third quarter.....	446,606	231,302	53,859	161,445
September.....	150,970	77,551	20,795	62,624
August.....	146,391	78,447	16,041	51,903
July.....	139,245	75,304	17,023	46,918
Second quarter.....	442,006	226,012	52,506	163,488
June.....	138,728	64,527	18,010	56,191
May.....	135,992	66,922	16,933	52,137
April.....	167,286	94,563	17,563	55,160
First quarter.....	487,940	266,137	51,411	170,392
March.....	159,134	80,261	18,513	60,360
February.....	152,920	82,466	16,049	56,405
January.....	175,886	103,410	16,849	55,627
1983				
Total.....	1,625,760	873,585	184,784	567,391
Fourth quarter.....	460,270	246,940	48,806	166,526
December.....	147,621	77,274	14,394	55,953
November.....	141,323	73,579	15,681	52,063
October.....	171,326	96,087	18,731	56,508
Third quarter.....	376,496	202,536	42,783	131,177
September.....	131,198	69,227	15,096	46,875
August.....	124,425	67,412	14,655	42,358
July.....	120,873	65,897	13,032	41,944
Second quarter.....	382,430	198,251	46,136	138,043
June.....	127,183	64,195	15,294	47,694
May.....	117,840	59,930	15,470	42,440
April.....	137,406	74,126	15,371	47,909
First quarter.....	406,564	225,858	47,059	133,647
March.....	151,887	80,065	16,600	52,222
February.....	131,900	73,910	14,209	43,781
January.....	122,777	71,883	16,250	36,644

Note: The monthly figures are based on data filed on Bureau of the Census monthly Form M360, Electric Lamps (Bulb's Cat.), from major producers of these types of lamps.

Table 5A. COMPARISON OF VALUES OF ELECTRIC LAMPS SHIPMENTS AS REPORTED IN HQ368 AND RELATED ANNUAL PROGRAMS

(Millions of dollars)

Product code	Product description	1984 ¹ HQ368	1983 ¹ HQ368	1982	
				HQ368	Census of Manufactures
3641	Electric lamps.....	(X)	(X)	(X)	2,078.9
36410 20	Electric lamps (bulbs) including sealed beam lamps (products included in CIR HQ368).....	2,661.8	2,277.1	2,116.4	2,019.2
36410 63	Cold cathode fluorescent lamps for illumination and decoration, including custom built lamps, but excluding sign applications..	(3)	(3)	(3)	22.7
36410 00	Electric lamps n.s.k., typically for establishments with 5 employees or more (see note).....				
36410 02	Electric lamps n.s.k., typically for establishments with less than 5 employees (see note).....				
					37.0

Note: In the 1982 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than five employees, were estimated from administrative records data rather than collected on census questionnaires. These shipments are included in product code 36410 02. Products not adequately identified by detail product were coded to appropriate industry (four digits) followed by "000."

N.s.k. Not specified by kind. (X) Not applicable.

¹Data from the 1984 and 1983 Annual Surveys of Manufactures will be released at a later date.

²Excludes Christmas tree lamps (36410 55) and cold cathode fluorescent lamps (36410 63).

³Detail data available only for the census of manufactures. A substantial portion of these data are derived from administrative records. See note above. In the annual survey of manufactures these values are included in the primary products total.

Table 5B. SHIPMENTS OF ELECTRIC LAMPS, AS REPORTED IN CURRENT INDUSTRIAL REPORT HQ368: 1975 TO 1984

(Quantity in millions of lamps; value in millions of dollars)

Shipments of electric lamps	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Quantity.....	3,723.4	3,615.9	4,023.2	4,419.7	5,041.8	5,840.7	5,830.9	5,612.2	5,500.9	4,916.9
Value.....	2,661.8	2,277.1	2,116.4	2,149.9	2,056.7	2,046.7	1,835.7	1,626.7	1,487.5	1,261.1

Note: These data do not include Christmas tree lamps or cold cathode fluorescent lamps.

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Table 6. SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF ELECTRIC LAMPS: 1984

(Quantity in thousands of units; value in thousands of dollars)

Product code ¹	Product description	Manufacturers' shipments		Export of domestic merchandise ²			Percent exports to manufacturers' shipments		Imports for consumption ⁴		Apparent consumption ⁵		Percent imports to apparent consumption	
		Quantity	Value f.o.b. plant	Quantity ²	Value at port ²	Estimated producers' value ³	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
36410 --	Electric filament lamps and electric discharge lamps, including ultraviolet and infrared lamps and photoflash lamps; electric fluorescent lamps; and arc lamps.....	3,723,373	2,661,020	81,358	128,068	110,433	2	5	1,046,342	263,056	4,190,687	2,779,287	25	8
	Photographic incandescent:													
	Photoflash, including blow.....	650,626	76,781											
36410 26	AC (all glass) lamps.....	1,483	215											
36410 26	W-types (miniature).....	5,504	1,349	26,299	7,427	6,404	4	10	167	167	626,524	87,536	170	120
36410 21	Flash cubes, all types.....	662,200	72,631											
36410 22	Other flash lamps.....	1,619	536											
	Large incandescent (except photographic and Christmas tree):													
	Tungsten halogen (exclude 450 watt tungsten):													
36410 05	General lighting.....	3,863	61,690											
36410 06	Other.....	1,720	29,979	1,171	5,405	4,661	21	8	12,339	21,414	17,151	87,676	76	28
	General lighting:													
36410 08	15 to 150 watts, 100 to 130 volts, white lamps.....	621,872	233,226											
36410 09	15 to 150 watts, 100 to 130 volts, all other.....	876,873	228,140											
36410 12	Above 150 watt, 100 to 130 volts.....	26,365	32,161											
36410 13	3-light, 100 to 130 volts.....	58,877	59,395											
	Reflector, 100 to 130 volts:													
36410 14	Par type (pressed glass).....	39,800	123,951											
36410 19	R type (blown glass).....	63,751	100,215											
36410 15	Infrared (all types) 100 to 130 volts.....	6,237	19,619	8,565	6,522	6,16,247	1	2	165,798	69,907	2,067,416	1,130,036	16	6
36410 16	Traffic and street lighting, 100 to 130 volts.....	6,627	6,849											
36410 17	Rough and vibration service, 100 to 130 volts.....	31,288	28,191											
36410 07	Decorative under 150 watt, 100 to 130 volts.....	49,767	35,566											
36410 18	All other large incandescent (special purpose).....	136,008	191,786											
36410 28	Projection, bulk packed.....	2,311	12,405											
36410 29	Projection, all other.....	6,726	67,683											
36410 25	Photo'end, photomicro, and other photo lamps.....	1,793	6,462											
	Miniature incandescent:													
	Automobile glass and metal sealed beam:													
36410 61	ORE.....	40,009	111,800											
36410 62	Replacement.....	45,040	142,186	32,541	37,266	32,136	11	11	3,649	10,666	103,237	311,922	4	3
	All other glass and metal sealed beam:													
36410 63	ORE.....	10,472	30,413											
36410 67	Replacement.....	16,308	53,921											
	Automobile miniature other than glass and metal sealed beam:													
36410 33	ORE.....	426,666	66,260											
36410 36	Replacement.....	170,467	58,552											
	Flashlight:													
36410 71	ORE.....	7,540	1,172											
36410 72	Replacement.....	5,871	1,684											
	Radio panel:													
36410 73	ORE.....	15,649	1,791	26,088	26,495	22,647	3	18	285,276	53,168	1,021,595	165,585	26	12
36410 74	Replacement.....	6,819	1,241											
	Subminiature lamps (T-2 and below):													
36410 75	ORE.....	90,116	21,865											
36410 76	Replacement.....													
	All other miniature:													
36410 77	ORE.....	29,722	10,048											
36410 78	Replacement.....	10,037	10,599											
	Electric discharge lamps:													
	Fluorescent, hot cathode:													
36410 43	Slimline.....	51,617	147,318											
36410 46	Circular.....	5,605	14,754											
36410 47	High output 800 milliwatt and over.....	28,633	111,975	7,211	15,199	13,108	2	2	26,641	27,596	420,668	721,942	5	6
36410 44	Other fluorescent lamps, below 40 watts.....	43,822	49,162											
36410 45	Other fluorescent lamps, 40 watts and over.....	269,361	346,136											
36410 41	Geriatric, bacterial, and ozone.....	135	7,313											
36410 42	Sun lamp bulbs.....	293	4,121											
	Miscellaneous electrical discharge:													
36410 51	Glow.....	70,326	6,037	2,483	19,754	17,036	3	7	49,082	15,612	136,284	286,610	17	12
36410 52	General lighting high intensity lamps.....	16,779	243,100											
36410 53	Sodium, photochemical and other miscellaneous electrical discharge.....	152	12,981											
36410 55	Christmas tree lamps, all types.....	(D)	(D)	(N)	(N)	(N)	(NA)	(NA)	367,660	21,529	(NA)	(NA)	(NA)	(NA)

(D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available. (N) Less than one half of 1 percent.

¹ For comparison of SIC-based product codes with Schedule B export numbers and TSOA import numbers, see table 6.² Source: Bureau of Census report EM 548, U.S. Exports.³ Estimated producers' value is derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the value to an approximation of the producers' value of exported goods. Current adjustment factors are based on data for 1981 which are published in the Annual Survey of Manufacturers, Origin of Exports of Manufactured Products, MB(AS)-5, appendix B. The adjustment factor for this report is 0.8623.⁴ Source: Bureau of Census report EM 143-5, U.S. Imports for Consumption and General Imports.⁵ Apparent consumption is derived by subtracting exports from the total of manufacturers' shipments plus imports.⁶ Exports of Christmas tree lights are included in 884,7500 and 556,9060.⁷ Not exactly comparable as imports and exports included nonautomotive sealed beams, which would be reported under SIC-based code 36410 39.

Table 7. SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF ELECTRIC LAMPS: 1983

(Quantity in thousands of units; value in thousands of dollars)

Product code ¹	Product description	Manufacturers' shipments		Export of domestic merchandise ¹			Percent exports to manufacturers' shipments		Imports for consumption ¹ &		Apparent consumption ⁵		Percent imports to apparent consumption	
		Quantity	Value f.o.b. plant	Quantity ²	Value at port ²	Estimated producers' value ³	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
36410 --	Electric filament lamps and electric discharge lamps, including ultraviolet and infrared lamps and photoflash lamps; electric luminescent lamps; and arc lamps.....	3,615,870	2,277,096	96,885	115,988	96,948	3	4	874,992	188,117	4,083,705	2,342,871	2	8
	Photographic incandescent:													
	Photoflash, including blue.....	804,793	91,124											
36410 26	AS (all glass) lamps.....	2,297	284											
36410 24	M-types (miniature).....	6,157	1,004	30,321	5,554	4,789	4	6	1,705	240	776,177	85,810	(2)	(2)
36410 21	Flash cubes, all types.....	794,145	89,375											
36410 22	Other flash lamps.....	2,194	451											
	Large incandescent (except photographic and Christmas tree):													
	Tungsten halogen (exclude 650 watt tungsten):													
36410 05	General lighting.....	3,489	36,583	531	4,482	3,865	11	7	15,375	16,017	19,614	72,035	78	22
36410 06	Other.....	1,281	23,917											
	General lighting:													
36410 08	15 to 150 watts, 100 to 130 volts, white lamps.....	535,392	188,606											
36410 09	15 to 150 watts, 100 to 130 volts, all other.....	679,058	216,283											
36410 12	Above 150 watt, 100 to 130 volts.....	25,452	29,742											
36410 13	3-light, 100 to 130 volts.....	52,829	49,629											
	Reflector, 100 to 130 volts:													
36410 14	Par type (pressed glass).....	34,636	103,056											
36410 19	R type (blown glass).....	39,057	82,190											
36410 15	Infrared (all types) 100 to 130 volts.....	3,294	15,439											
36410 16	Traffic and street lighting, 100 to 130 volts.....	6,584	6,393	618,464	617,989	615,513	12	2	223,464	49,522	1,809,165	988,850	12	4
36410 17	Rough and vibration service, 100 to 130 volts.....	23,781	23,686											
36410 07	Decorative under 150 watt, 100 to 130 volts.....	39,412	30,811											
36410 18	All other large incandescent (special purpose).....	148,372	96,528											
36410 28	Projection, bulk packed.....	2,289	11,620											
36410 29	Projection, all other.....	8,509	62,267											
36410 25	Photoflood, photoenlarger, and other photolamps.....	1,900	7,635											
	Miniature incandescent:													
	Automobile glass and metal sealed beams:													
36410 61	OEM.....	30,917	81,601											
36410 62	Replacement.....	39,745	107,337	710,969	732,694	728,364	12	13	6,543	11,958	89,173	233,763	7	5
	All other glass and metal sealed beams:													
36410 65	OEM.....	9,943	25,070											
36410 67	Replacement.....	12,994	40,691											
	Automobile miniature other than glass and metal sealed beams:													
36410 33	OEM.....	354,888	37,637											
36410 36	Replacement.....	162,259	36,636											
	Flashlight:													
36410 71	OEM.....	8,830	1,374											
36410 72	Replacement.....	8,249	2,162											
	Radio panel:													
36410 73	OEM.....	18,106	1,953	723,670	716,314	714,067	4	13	251,146	40,089	897,507	150,673	28	27
36410 74	Replacement.....	5,825	1,084											
	Subminiature lamps (T-2 and below):													
36410 75	OEM.....	77,974	21,691											
36410 76	Replacement.....													
	All other miniature:													
36410 77	OEM.....	25,610	14,662											
36410 78	Replacement.....	8,016	9,699											
	Electric discharge lamps:													
	Fluorescent, hot cathode:													
36410 43	Slimline.....	51,253	128,962											
36410 46	Circular.....	6,363	16,427											
36410 47	High output 800 milliwatt and over.....	24,208	92,235	8,443	17,320	14,936	2	3	16,901	19,356	374,184	595,077	5	3
36410 44	Other fluorescent lamps, below 40 watts.....	44,992	81,359											
36410 45	Other fluorescent lamps, 40 watts and over.....	238,910	274,058											
36410 41	Germicidal, bacterial, and ozone.....	159	2,386											
36410 42	Sun lamp bulbs.....	205	2,530											
	Miscellaneous electrical discharge:													
36410 51	Glow.....	61,255	7,145	4,487	21,435	18,484	6	9	43,712	31,149	115,885	236,663	38	13
36410 52	General lighting high intensity lamps.....	14,628	201,330											
36410 53	Sodium, photochemical and other miscellaneous electrical discharge.....	413	13,358											
36410 55	Christmas tree lamps, all types.....	(D)	(D)	(b)	(b)	(b)	(NA)	(NA)	314,146	19,786	(NA)	(NA)	(NA)	(NA)

(D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available. (Z) Less than one half of 1 percent.

¹ For comparison of SIC-based product codes with Schedule B export numbers and TSUSA import numbers, see table 8.² Source: Bureau of Census report EM 544, U.S. Exports.³ Estimated producers' value is derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers' value of exported goods. Current adjustment factors are based on data for 1981 which are published in the Annual Survey of Manufactures, Origin of Exports of Manufactured Products, M81(AS)-5, appendix B. The adjustment factor for this report is 0.8623.⁴ Source: Bureau of Census report IM 145-X, U.S. Imports for Consumption and General Imports.⁵ Apparent consumption is derived by subtracting exports from the total of manufacturers' shipments plus imports.⁶ Exports of Christmas tree lights are included in 886,7500 and 656,9060.⁷ Not exactly comparable as imports and exports included nonautomotive sealed beams, which would be reported under SIC-based code 36410 39.

Table 8. COMPARISON OF STANDARD INDUSTRIAL CLASSIFICATION-BASED PRODUCT CODES, SCHEDULE B EXPORT NUMBERS, AND TNSA IMPORT NUMBERS: 1984

Product code ¹	Product description	Export number ²	Product description	Import number ³	Product description
36410 --	Electric filament lamps and electric discharge lamps, including ultraviolet and infrared lamps and photoflash lamps; electric incandescent lamps, and arc lamps.		Electric filament lamps and electric discharge lamps, including ultraviolet and infrared lamps and photoflash lamps; and arc lamps:		Electric filament lamps and electric discharge lamps, including ultraviolet and infrared lamps and photoflash lamps; and arc lamps:
	Photographic incandescent:				
	Photoflash, including blue.....				
36410 26	AG (all glass) lamps.....	686.5000	Photoflash filament lamps	686.5000	Photoflash filament lamps
36410 24	W types (miniature).....				
36410 21	Flash cubes, all types.....				
36410 22	Other flash lamps.....				
	Large incandescent, except photographic and Christmas tree:		Designed for operating at 100 volts or more:		Designed for operating at 100 volts or more:
	Tungsten halogen, exclude 650 watts sunlamps:				
36410 05	General lighting.....	686.9040	Tungsten halogen (including quartz iodine)	686.9040	Tungsten halogen and other lamps using halogen regenerative cycle
36410 06	Other.....				
	General lighting:				
36410 08	15 to 150 watts, 100 to 130 volts, white lamps.....	686.9060	Other, including three-way, decorative, standard household reflector, traffic and street lighting, and rough and vibration service lamps ⁴	686.9010 686.9030 686.4000 686.9050 686.9020	Other General lighting, 150 watts and under: Three-way lamps Other Infrared lamps Other Decorative
36410 09	15 to 150 watts, 100 to 130 volts, all other.....				
36410 12	Above 150 watts, 100 to 130 volts.....				
36410 13	Three-way, 100 to 130 volts.....				
36410 14	Reflector, 100 to 130 volts:				
36410 14	Par type (pressed glass).....				
36410 19	R type (blown glass).....				
36410 15	Infrared, all types, 100 to 130 volts....	686.9060	Other, including three-way, decorative, standard household reflector, traffic and street lighting, and rough and vibration service lamps ⁴	686.9010 686.9030 686.4000 686.9050 686.9020	Other General lighting, 150 watts and under: Three-way lamps Other Infrared lamps Other Decorative
36410 16	Traffic and street lighting, 100 to 130 volts.....				
36410 17	Rough and vibration service, 100 to 130 volts.....				
36410 07	Decorative under 150 watt, 100 to 130 volts.....				
36410 18	All other large incandescent, special purpose ⁵				
36410 28	Projection, bulk packed.....				
36410 29	Projection, all other.....				
36410 25	Photoflood, photoenlarger, and other photolamps.....				
	Miniature incandescent:		Sealed-beam lamps: ⁵		Sealed-beam lamps: ⁵
36410 61	Automobile glass and metal sealed beams:				
36410 62	OEM.....	686.6010	Under 6 inches (measured diagonally)	686.6010	Under 6 inches (measured diagonally)
36410 62	Replacement.....	686.6020	6 inches and over (measured diagonally)	686.6020	6 inches and over (measured diagonally)
36410 65	All other glass and metal sealed beams:			686.6100	Canadian article
36410 65	OEM.....				
36410 67	Replacement.....				
36410 33	Automobile miniature other than glass and metal sealed beams:		Designed for operating at less than 100 volts	686.7000	Designed for operating at less than 100 volts ⁵
36410 33	OEM.....				Lamps having glass envelope not over .25 maximum diameter and suitable for instruments
36410 36	Replacement.....				
36410 71	Flashlight:				
36410 71	OEM.....				
36410 72	Replacement.....				
36410 73	Radio panel:			686.8020	Flashlight lamps
36410 73	OEM.....			686.8040	Other
36410 74	Replacement.....	686.7500	All types ^{4, 5}	686.8100	Canadian article
36410 75	Subminiature lamps (T-2 and below):				
36410 75	OEM.....				
36410 76	Replacement.....				
36410 76	All other miniature:				
36410 77	OEM.....				
36410 78	Replacement.....				
	Electric discharge lamps:		Electric discharge including ultraviolet lamps:		Electric discharge lamps, including ultraviolet lamps:
	Fluorescent, hot cathode:				
36410 43	Stimulose.....	687.1010	Fluorescent, hot cathode	687.1010	Fluorescent hot cathode
36410 46	Circular.....				
36410 47	High output 800 milliamp and over.....				
36410 44	Other fluorescent lamps, below 40 watts				
36410 45	Other fluorescent lamps, 40 watts and over.....				
36410 41	Germinicidal, bacterial, and ozone.....				
36410 42	Sun lamp bulbs.....				
	Miscellaneous electrical discharge:		Mercury vapor	687.1030	Mercury vapor
36410 51	Glow.....	687.1030	Other, including ultraviolet lamps	687.1020	Sodium vapor
36410 52	General lighting high intensity lamps...	687.1050		687.1040	Other, including ultraviolet lamps
36410 53	Sodium, photochemical, and other miscellaneous electrical discharge....				
36410 55	Christmas tree lamps, all types.....	(⁶)			Christmas tree lamps: Miniature Other

¹Source: 1983 Current Industrial Reports Instruction Manual HQ368, Electric Lamps.²Source: 1983 edition, Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.³Source: Tariff Schedules of the United States Annotated (1983).⁴Exports of Christmas tree lights would be included in 686.7500 and 686.9060.⁵Not exactly comparable as imports and exports include nonautomotive sealed beams, which would be reported under SIC-based product code 36410 39.

DESCRIPTION OF SURVEY

Scope of Survey—This survey covers all companies engaged in manufacturing electric lamps (bulbs only) in the United States.

Survey Methodology—The statistics in this publication were collected by mail on Bureau of the Census quarterly Form MQ36B, Electric Lamps (Bulbs Only). The survey panel includes all known manufacturers of electric lamps, approximately 29 companies.

Participation in the quarterly survey is voluntary. However, annual reports are required from those that do not report quarterly. The annual summary includes revisions of quarterly data originally estimated (see "Reliability of Data" below) for companies which only report annually.

Reliability of Data—Survey error may result from several sources: (1) inability to obtain information about all cases in the survey, (2) response errors, (3) definitional difficulties, (4) differences in the interpretation of questions, (5) mistakes in recording or coding the data obtained, and (6) other errors of collection, response, coverage, and estimation for missing data. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to non-sampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is due to imputing data for nonrespondents, for late reporters, and for data which fail logic edits. Missing figures are imputed based on quarter-to-quarter movements shown by reporting firms. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse because the actual quarterly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is not precisely known but is assumed to be small. The degree of uncertainty regarding the accuracy of the published data, however, increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

Revisions to Previous Period Data—Data may be revised as the result of corrected figures from respondents, annual reports received for which imputations were originally made as described above, or other corrections. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Revisions may include changes to prior period data resulting from reconciliation of the results of this survey with the 1982 Census of Manufactures to correct differences in reported data between the two series and to identify and verify new establishments included in the scope of this survey. Table 5A presents a comparison of data from the two series by census product class following the reconciliation.

Adjustment for Price Change—All dollar figures included in this publication are in current dollars; i.e., they have not been adjusted for price change.

Seasonal Adjustment—This report presents seasonally adjusted data in table 1 for selected series shown in table 1. The data were seasonally adjusted using the X-11 variant of the Bureau of the Census Method II seasonal adjustment program. This seasonal adjustment program is a ratio-to-moving average method. The seasonal adjustment program largely eliminates the effect of seasonal variations (intra-year variations repeated constantly from year to year) within the series. The seasonally adjusted data provide a better measure of the quarter-to-quarter variations which are due to factors other than seasonal patterns than do the unadjusted (original) data.

EXPLANATION OF TERMS

Quantity and Value of Shipments—The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Shipments to a company's own branches are assigned the same value as comparable sales to unaffiliated customers; i.e., the value includes an appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

Production—Represents total number of lamps produced including for sale to other lamp manufacturers after adjustments for breakage, shrinkage, obsolescence, and any other inventory adjustment.

Exports—Includes all types of lamps shipped to foreign countries, or to agents, or exporters for reshipment to foreign countries.

Stocks on Hand, End of Month—Includes all types of lamps on hand at the end of the month.

Photoflash Lamps

AG (All Glass)—All glass types with glass groove base: AG-1, AG-1B, etc.

M-Types—Types with miniature pinless base: M-2, M-2B, M-3, etc.

Flash Cubes—Types wherein several subminiature type flash lamps with reflectors are enclosed in one plastic cube, bar, etc. Each cube counts as four flashes, each flash bar as ten flashes, etc.: flash cube, Magicube, flash bar, flip-flash, highpower cube, etc.

Other Flash Lamps—Other flash lamps using the bayonet base (5, 5B, P-25, etc.) and the medium screw base (11, 11B, P-40, etc.).

General Lighting Large Incandescent Lamps—Represents all large incandescent lamps for general lighting purposes, 15 watts and above, 100 to 130 volts, including tinted lamps such as

pink, yellow, and white. White lamps are those with a special inside white coating which provide a softer, more diffused, and whiter light.

Three-Way Lamps—Includes medium and mogul base lamps, 100 to 130 volts, including tinted lamps, such as pink and white.

Reflector and Par Lamps—Includes all incandescent filament lighting lamps, 100 to 130 volts, using a pressed or blown bulb reflectorized from the maximum diameter to the neck of the bulb. These exclude special purpose lamps, such as heat lamps, sun lamps, reflectorized photo lamps, and automotive types.

Infrared Lamps—Represents all types, including incandescent and tungsten halogen quartz, regardless of voltage.

Tungsten Halogen (Quartz Iodine)—Represents all large incandescent lamps, (except infrared) which utilize the tungsten halogen regenerative cycle. Excludes the 650 watt lamp used in sunguns which are included with photoflood, photoenlarger, and other photolamps.

Decorative Under 150 Watts, 100 to 130 Volts—Represents flame, candleabra, chimney, or other special bulb shapes (except Christmas tree lamp types) intended for applications in which the aesthetic appearance of the lighted lamp is more important than light output or other design characteristics.

All Other Large Incandescent (Special Purpose) Lamps—Includes all large incandescent lamps for special services such as sign and display (including colored lamps, except as described under general lighting), aviation, street, railway, spot and flood-lighting, train and country home lighting, showcases, other items for special applications, and large incandescent lamps, including those under 15 watts and other than 100 to 130 volts.

All Other Miniature Incandescent Lamps—Includes all lamps operating from small voltages, primarily used in special services (other than those covered in fluorescent hot cathode-high output) such as: toy, pin game, telephone switchboard, surgical, medical, and dental equipment, and other items for special applications).

Fluorescent (Hot Cathode) Lamps—Includes all types of fluorescent (hot cathode) lamps. High output includes high output, power grove, VHO and SHO.

General Lighting High Intensity Discharge Lamps—Includes mercury, self-ballasted mercury, metal halide, and high pressure sodium lamps, whether in clear or diffusing bulbs, with or without light control (i.e., A, B, BT, E, R, or T bulbs) intended for general lighting, store and commercial lighting, roadway and area lighting, or flood and sports lighting applications.

Miscellaneous Electric Discharge Lamps—Includes short arc xenon, short arc mercury, short arc mercury-xenon, long arc xenon, photo-chemical, low pressure sodium, and other special purpose discharge lamps not specifically cited elsewhere.

Christmas Tree Lamps—Includes both incandescent type and fluorescent or electrical discharge type Christmas tree lamps.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; on the other hand, the export and import classification system is more materials oriented. Aside from the differences in the basic commodity classifications, there are additional problems involving import data, since there are a substantial number of imported commodities which are not produced in the United States or which are produced only in very small quantities and which, therefore, have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to the problems mentioned above, there are also the following problems affecting the comparability of the three sets of data.

Valuation—There are different methods of valuation for the three types of data:

Domestic Output—Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

Exports—Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance, and other charges to the export point.

Estimated producers' values of exports have also been developed. These values more closely approximate the values reported for domestic output because they exclude freight, insurance, and other charges applied from the producing plant to the export point.

Imports—Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

Duplication in Quantity and Value of Output—Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

Low-Value Export and Import Transactions—Detailed commodity information is not included for individual import shipments valued at not more than \$250 or for individual

export shipments valued at not more than \$500. This is believed to have only negligible effects on the statistics for the bulk of the commodities.

Manufacturers' Shipments, Not Specified by Kind—The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

Time Lag Between Output and Exports—There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

"Direct" vs "Total" Commodity Exports and Imports—Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

Used Commodities—With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

Geographic Area of Coverage—Import and export data reflect the movement of merchandise into and out of U.S. foreign trade zones, the U.S. Virgin Islands, and the U.S. customs territory (includes the 50 States, the District of Columbia, and Puerto Rico).

HISTORICAL NOTES

Data on electric lamps have been collected by the Bureau of the Census since 1943. Historical data may be obtained from Current Industrial Reports (called Facts for Industry before 1959) available at your local Federal Depository Library. A list of these libraries may be obtained from the Bureau of the Census regional offices:

Office	Telephone
Atlanta, Georgia	(404) 526-2271
Boston, Massachusetts	(617) 223-2327
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RELATED REPORTS

A quarterly Current Industrial Report is published in this series. The Bureau of the Census also publishes the following related reports:

Series	Frequency	Title
<i>Current Industrial Reports</i>		
M36D	Monthly	<i>Electric Lamps</i>
MQ36C	Quarterly	<i>Fluorescent Lamp Ballasts</i>
MA36L	Annually	<i>Electric Lighting Fixtures</i>
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M3-1	Monthly	<i>Manufacturers' Shipments, Inventories, and Orders</i>
(AS)	Annually	<i>Annual Survey of Manufactures (ASM)</i>
(MC)	Quinquennially	<i>Census of Manufactures</i>
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EM 546	Monthly	<i>U.S. Exports</i>
IM 145-X	Monthly	<i>U.S. Imports for Consumption and General Imports</i>
IM 146	Monthly	<i>U.S. Imports for Consumption</i>

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